

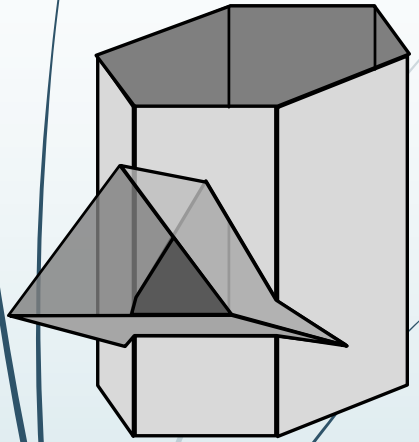
EGD Grade 11

Interpenetrations

Developed by: PC Viljoen
Senior Educational Specialist for
Engineering Graphics and Design

Free State Province

Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

Instructions:

Draw, to scale 1:1, the following:

1. The given top view.
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

- * Show ALL hidden detail.
- * Show ALL necessary construction.

Question 2: Interpenetration

Given:

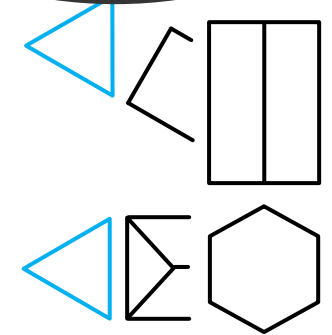
- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

Instructions:

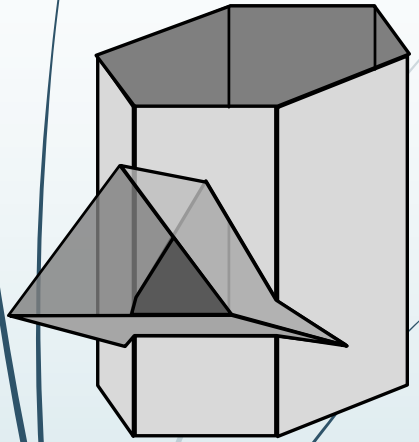
Draw, to scale 1:1, the following:

1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

- * Show ALL hidden detail.
- * Show ALL necessary construction.



Interpenetrations & Development



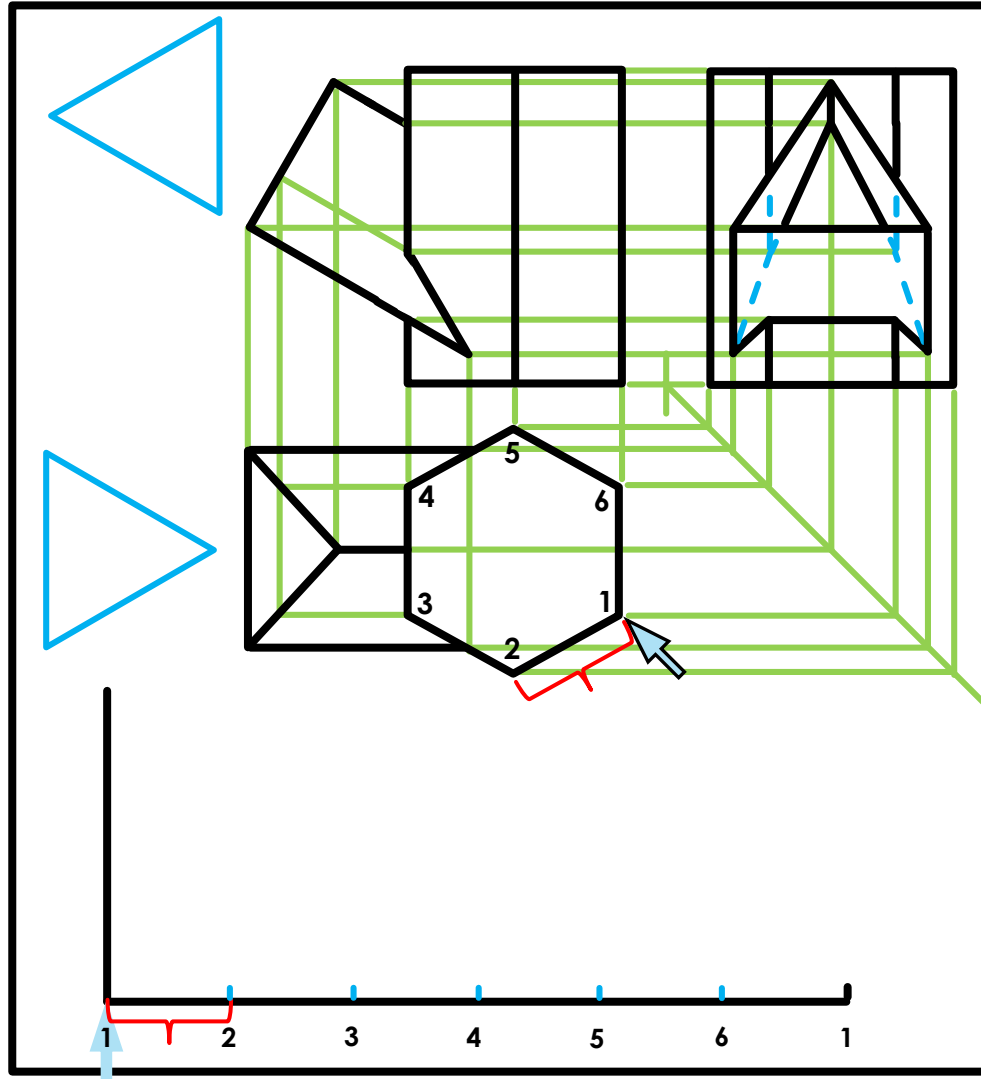
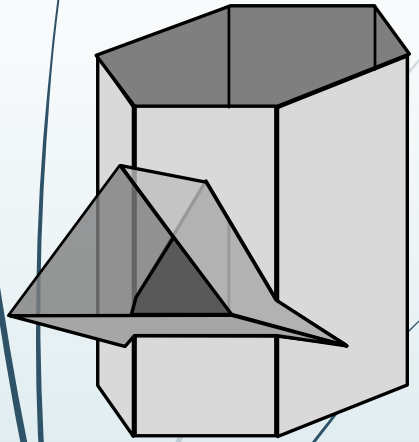
Question 2: Interpenetration
Given:
 * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
 * An auxiliary view of the triangular prism

Instructions:
 Draw, to scale 1:1, the following:
 1. The given top view
 2. The complete front view clearly showing the curve of interpenetration.
 3. The complete left view.
 4. Develop the hexagon to show the interpenetration clearly.
 5. Develop the equilateral triangular prism.

* Show ALL hidden detail.
 * Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

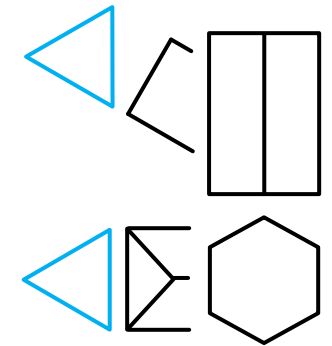
Instructions:

Draw, to scale 1:1, the following:

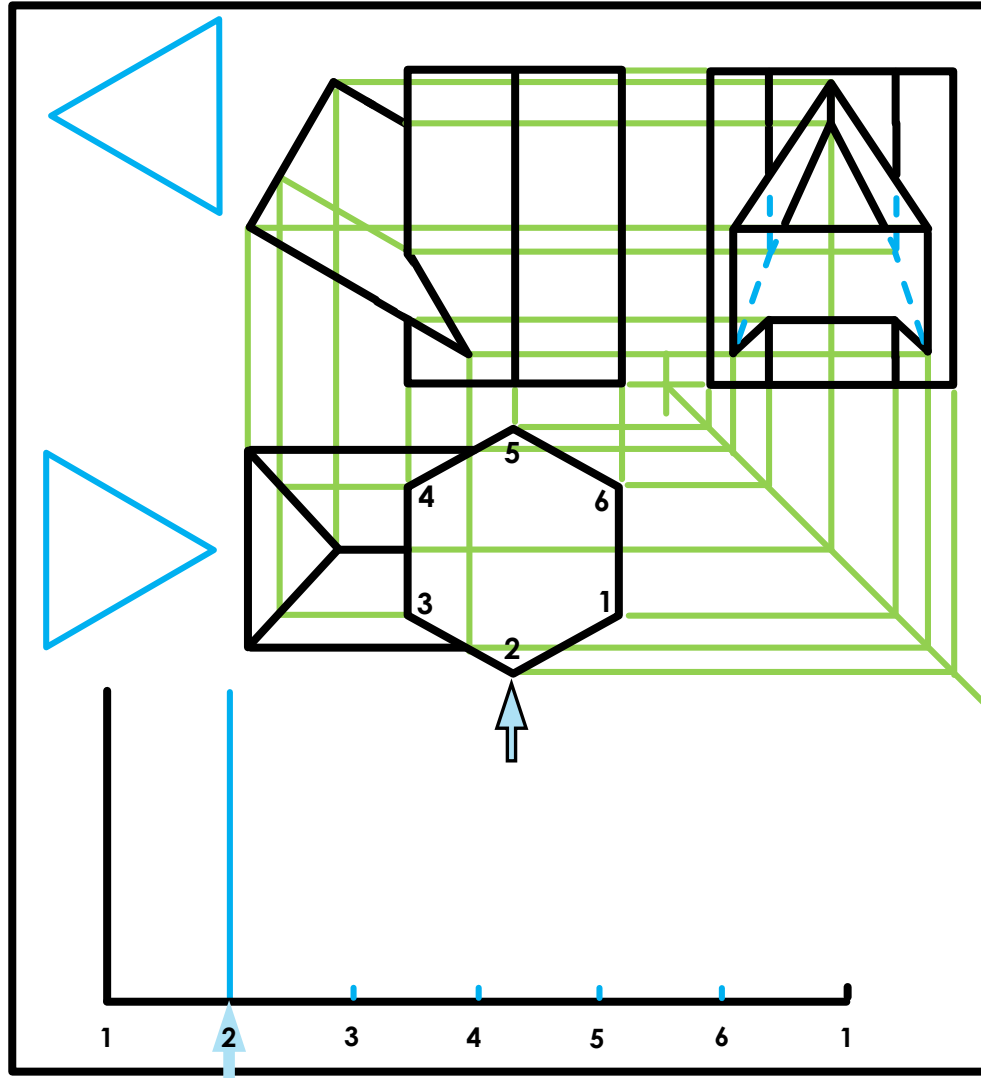
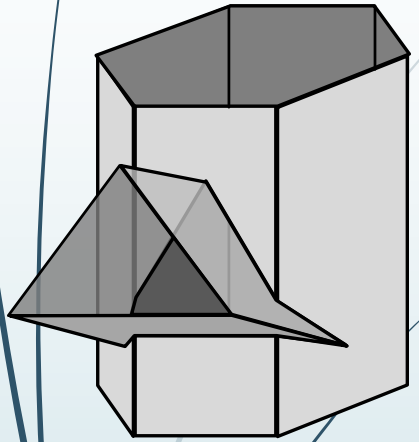
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

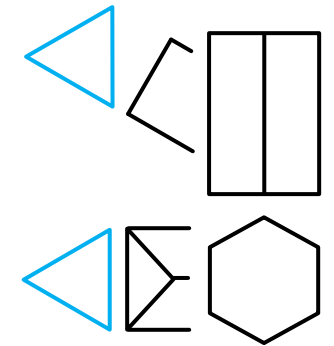
Instructions:

Draw, to scale 1:1, the following:

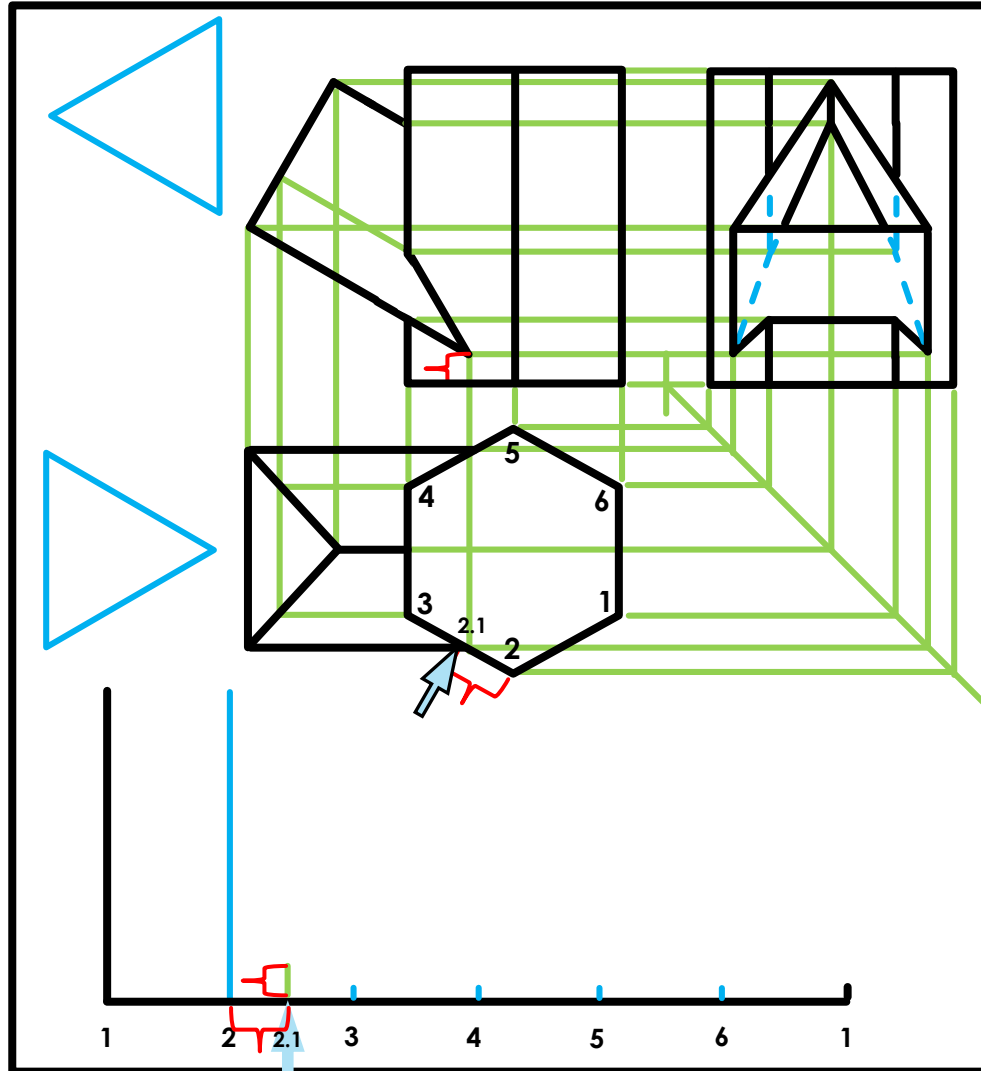
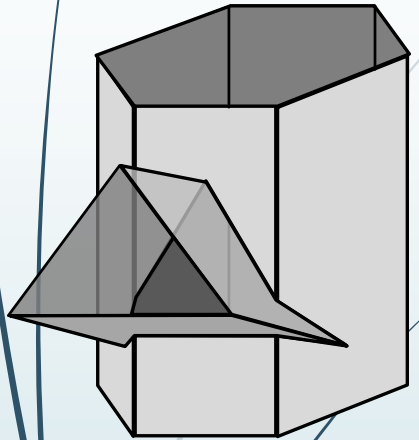
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

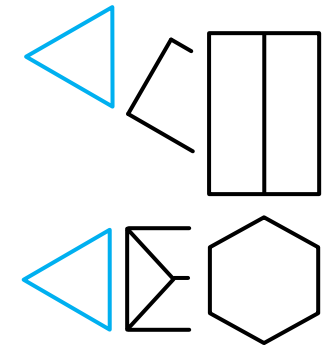
Instructions:

Draw, to scale 1:1, the following:

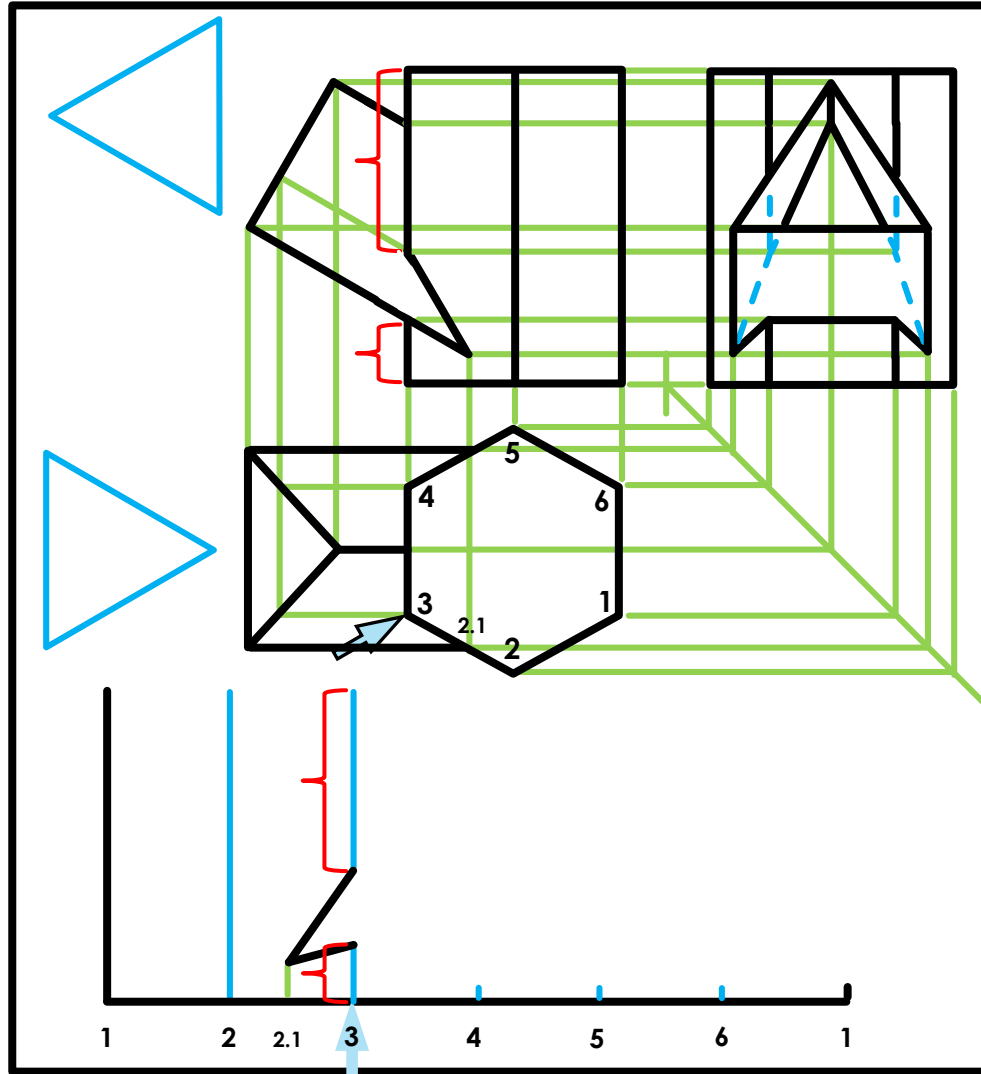
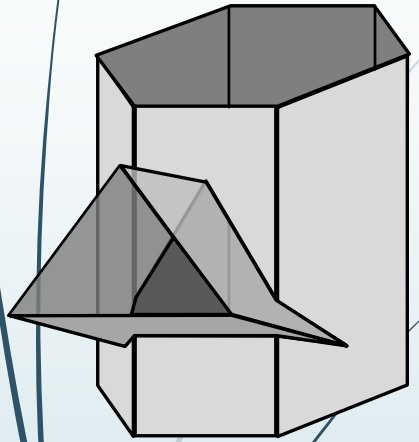
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

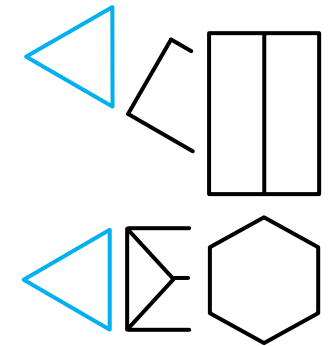
Instructions:

Draw, to scale 1:1, the following:

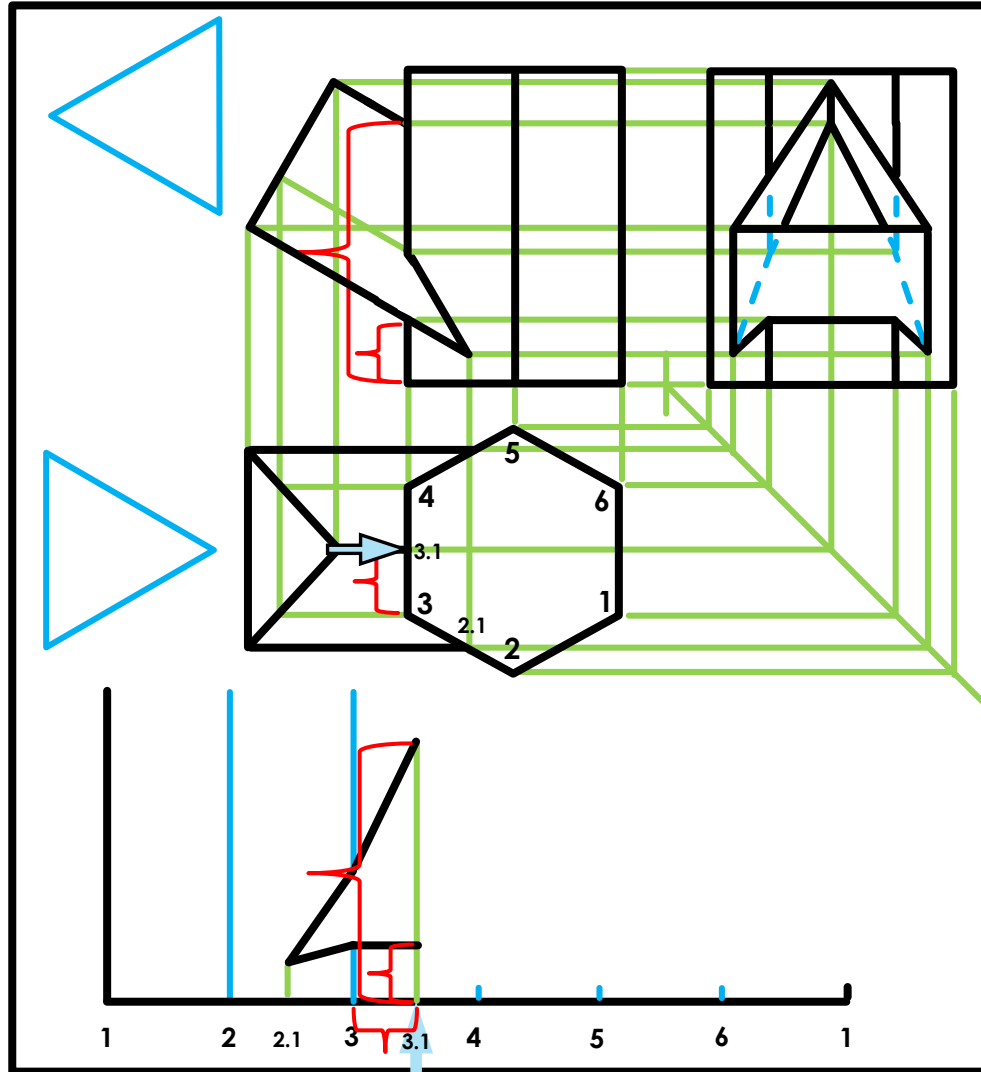
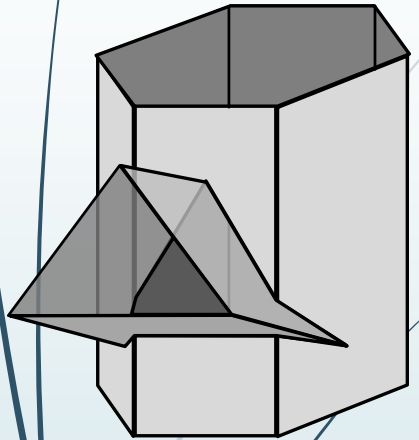
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

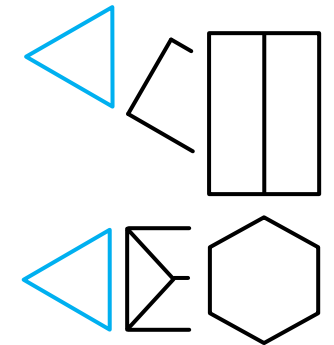
Instructions:

Draw, to scale 1:1, the following:

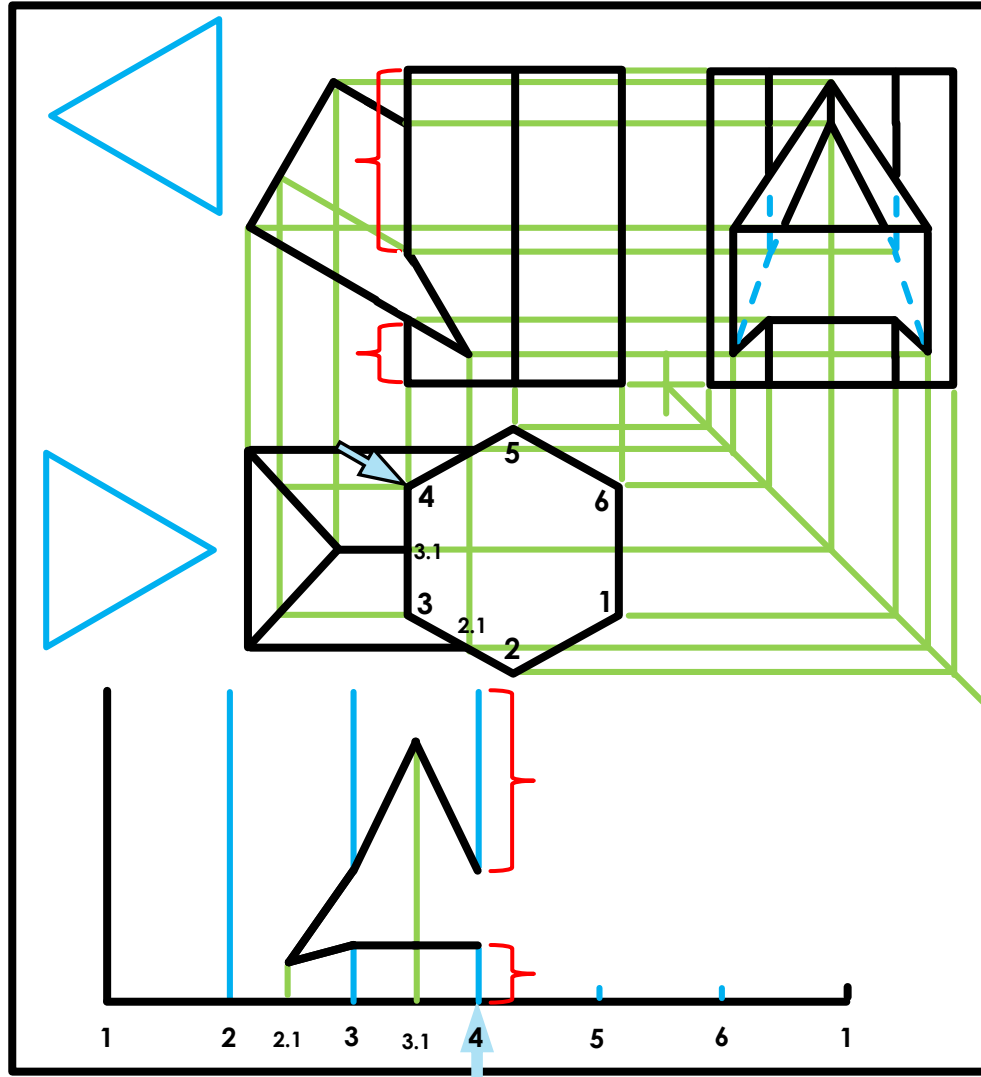
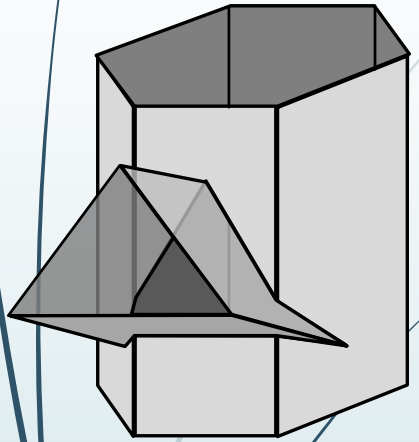
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

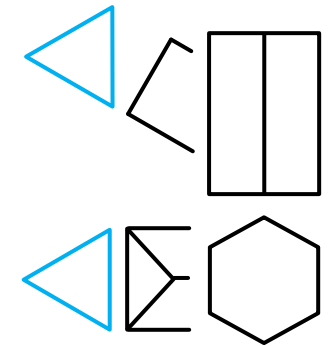
Given:
 * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
 * An auxiliary view of the triangular prism

Instructions:

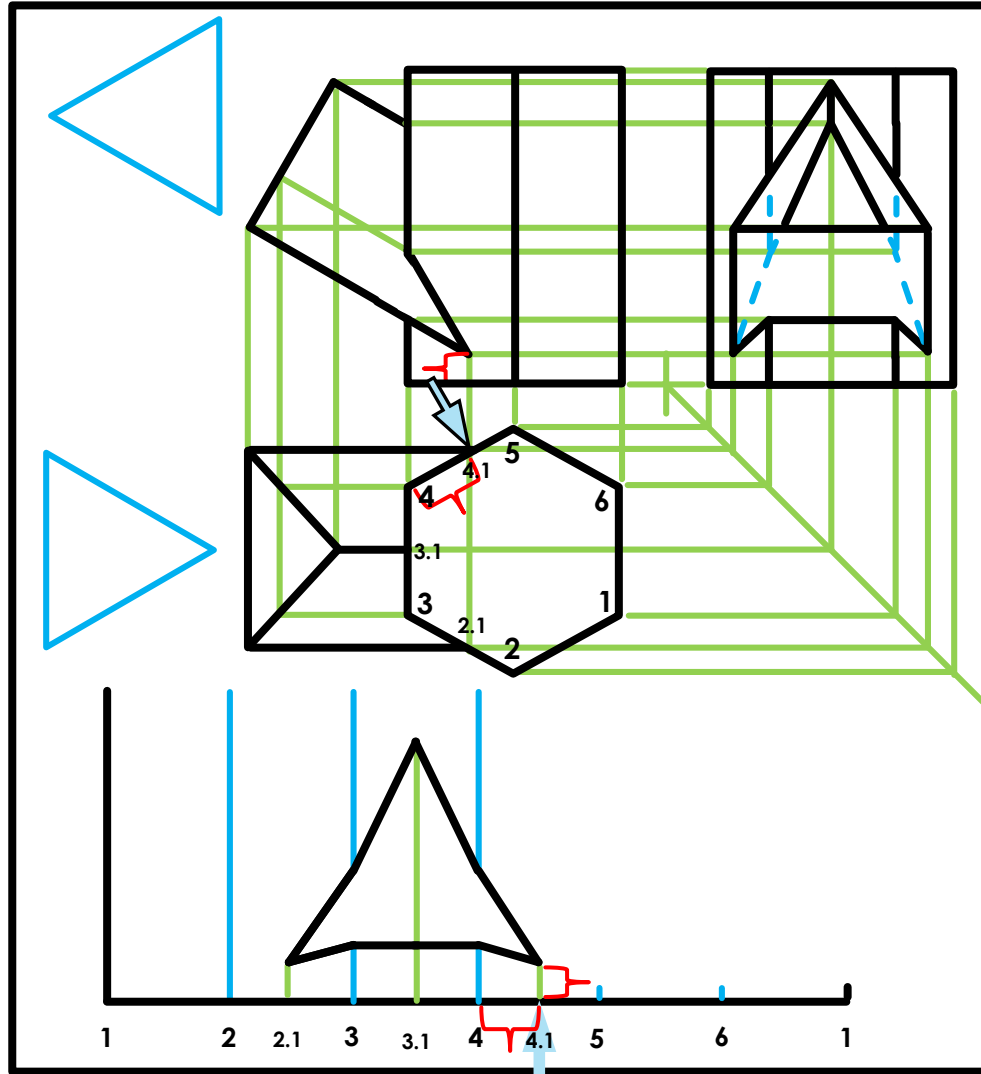
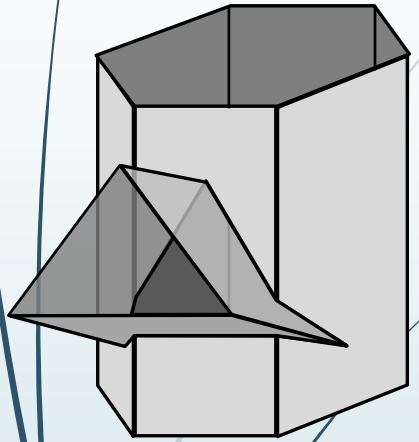
Draw, to scale 1:1, the following:

1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.
 * Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

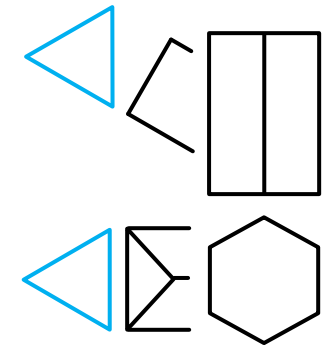
Instructions:

Draw, to scale 1:1, the following:

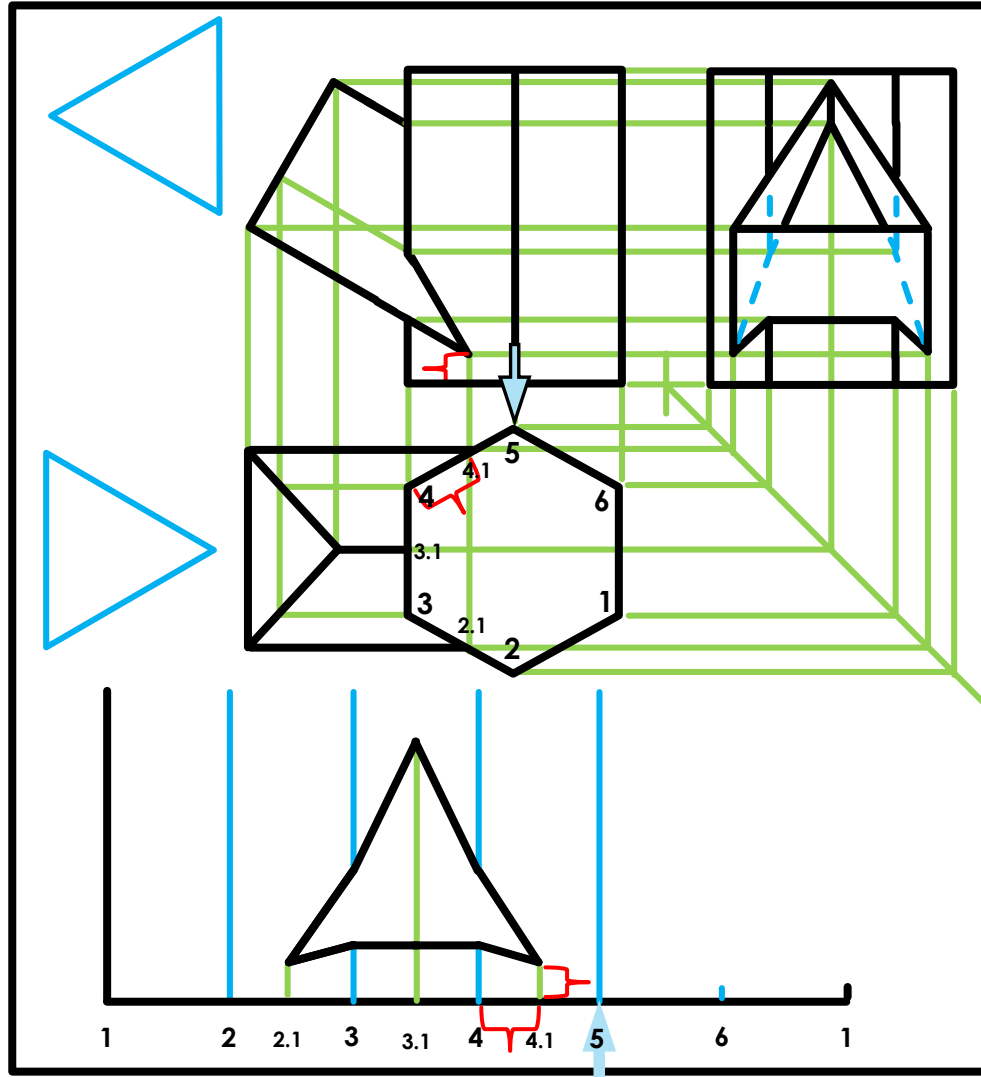
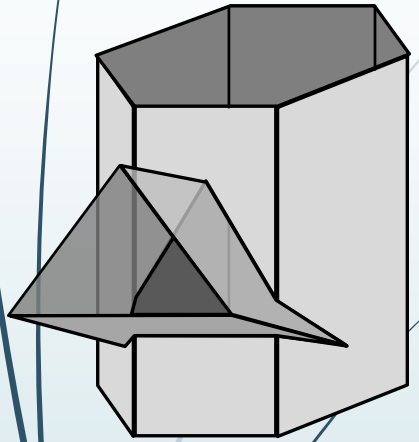
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

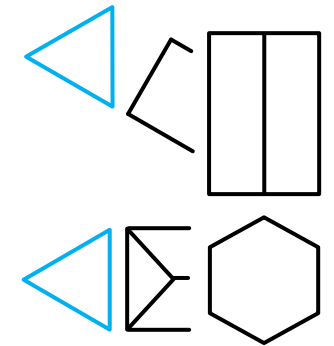
Instructions:

Draw, to scale 1:1, the following:

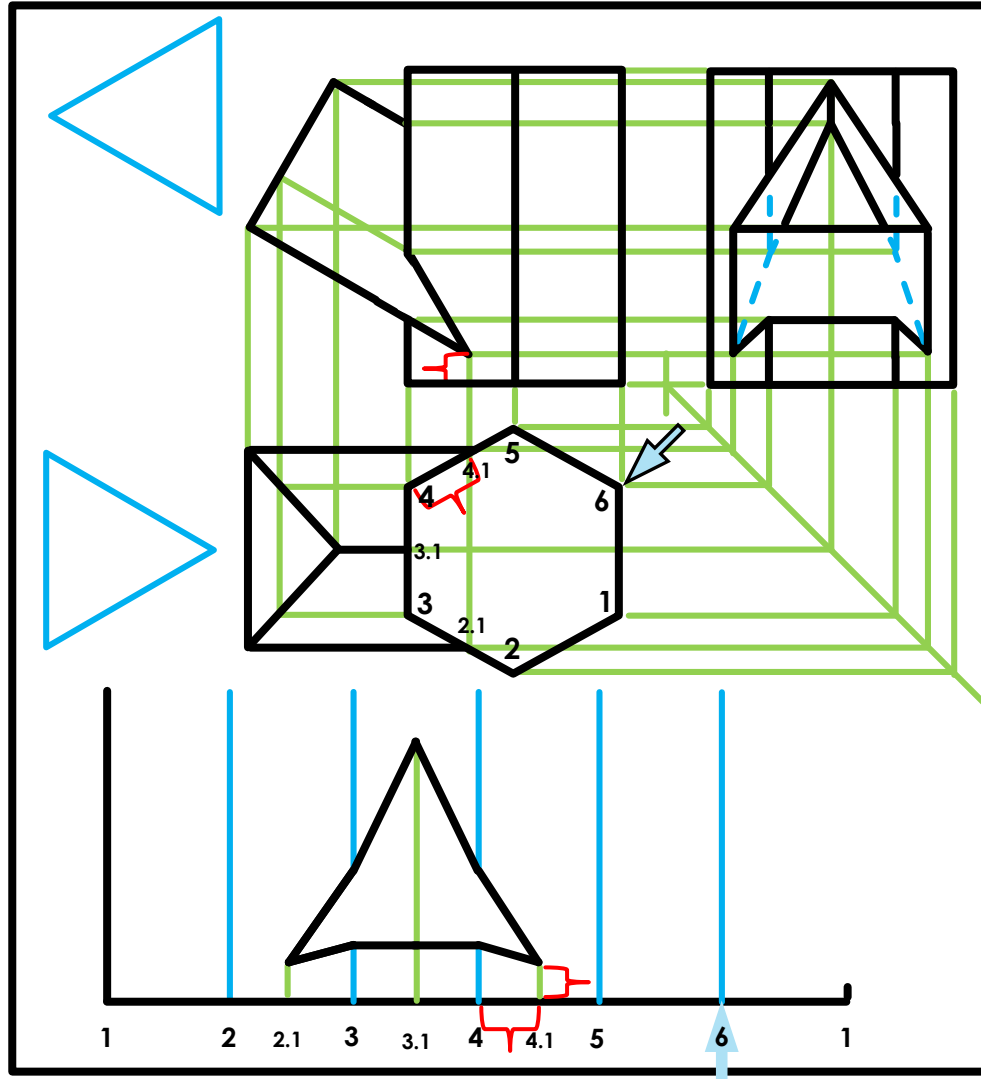
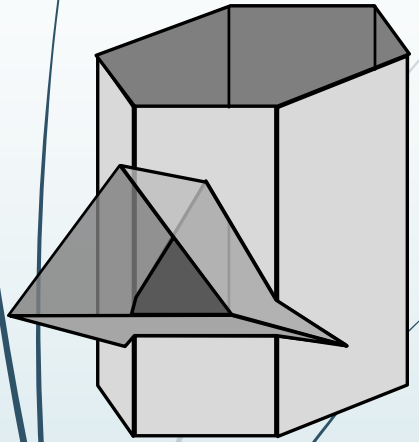
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

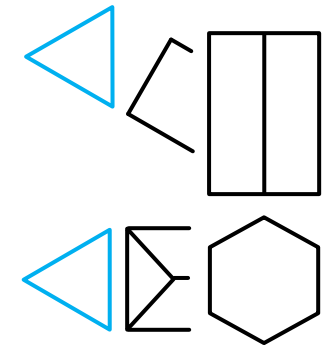
Instructions:

Draw, to scale 1:1, the following:

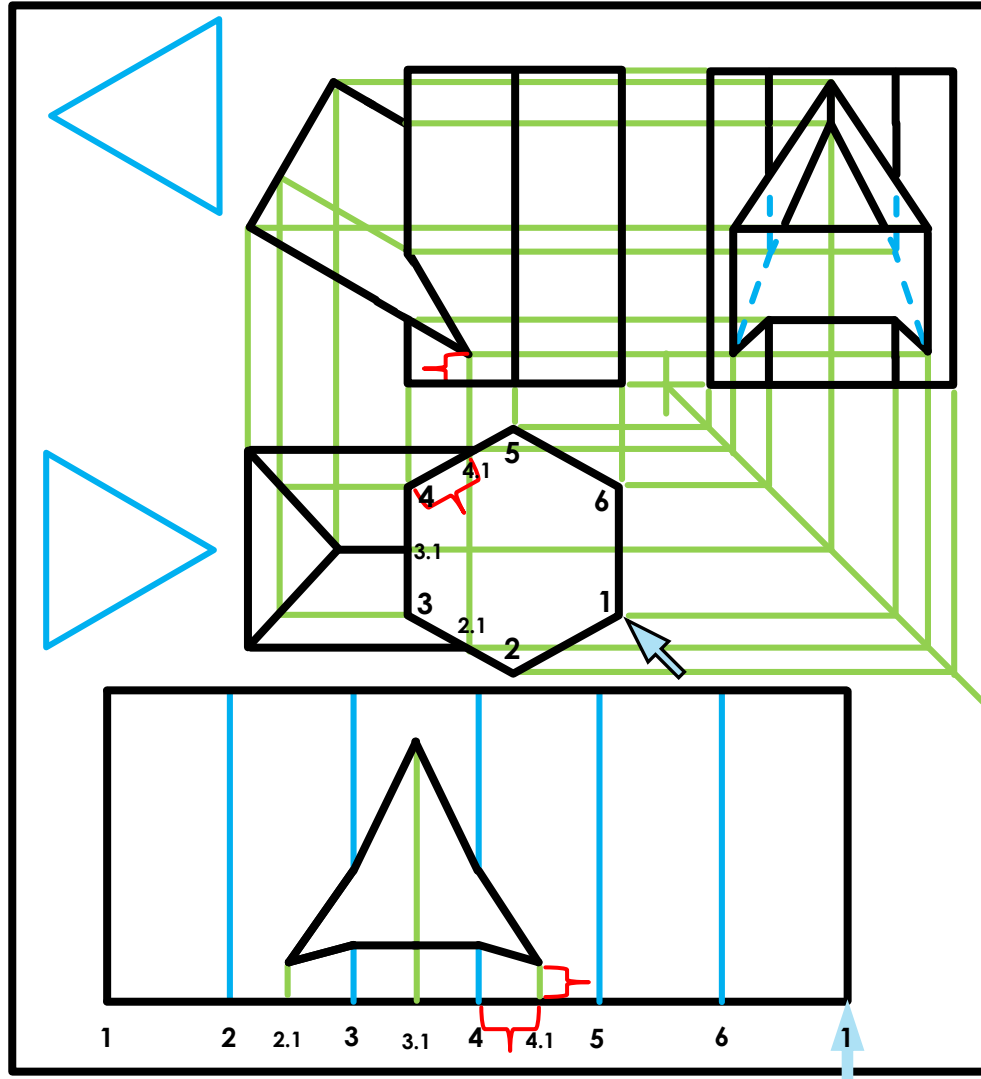
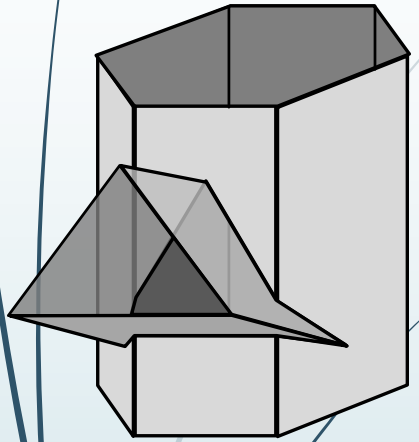
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

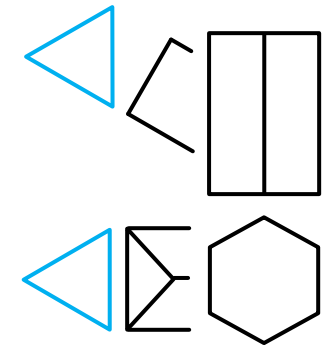
Instructions:

Draw, to scale 1:1, the following:

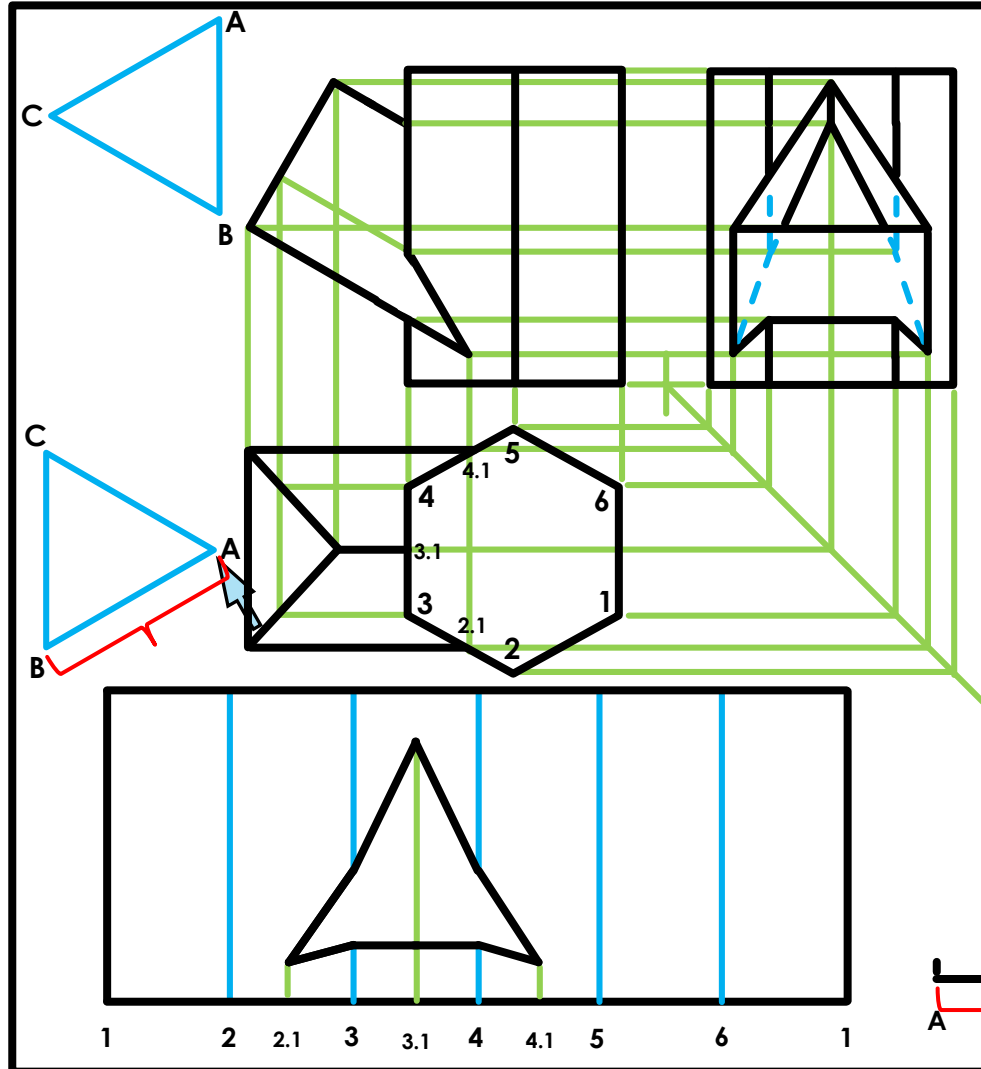
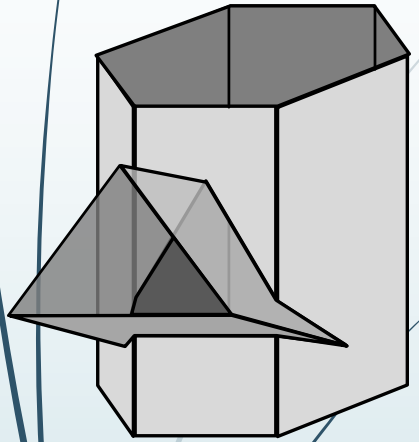
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development



Question 2: Interpenetration

Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

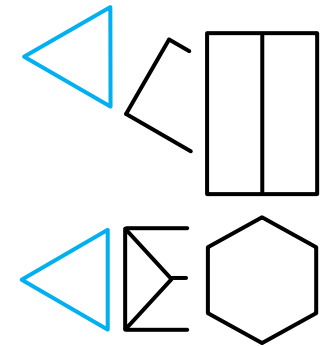
Instructions:

Draw, to scale 1:1, the following:

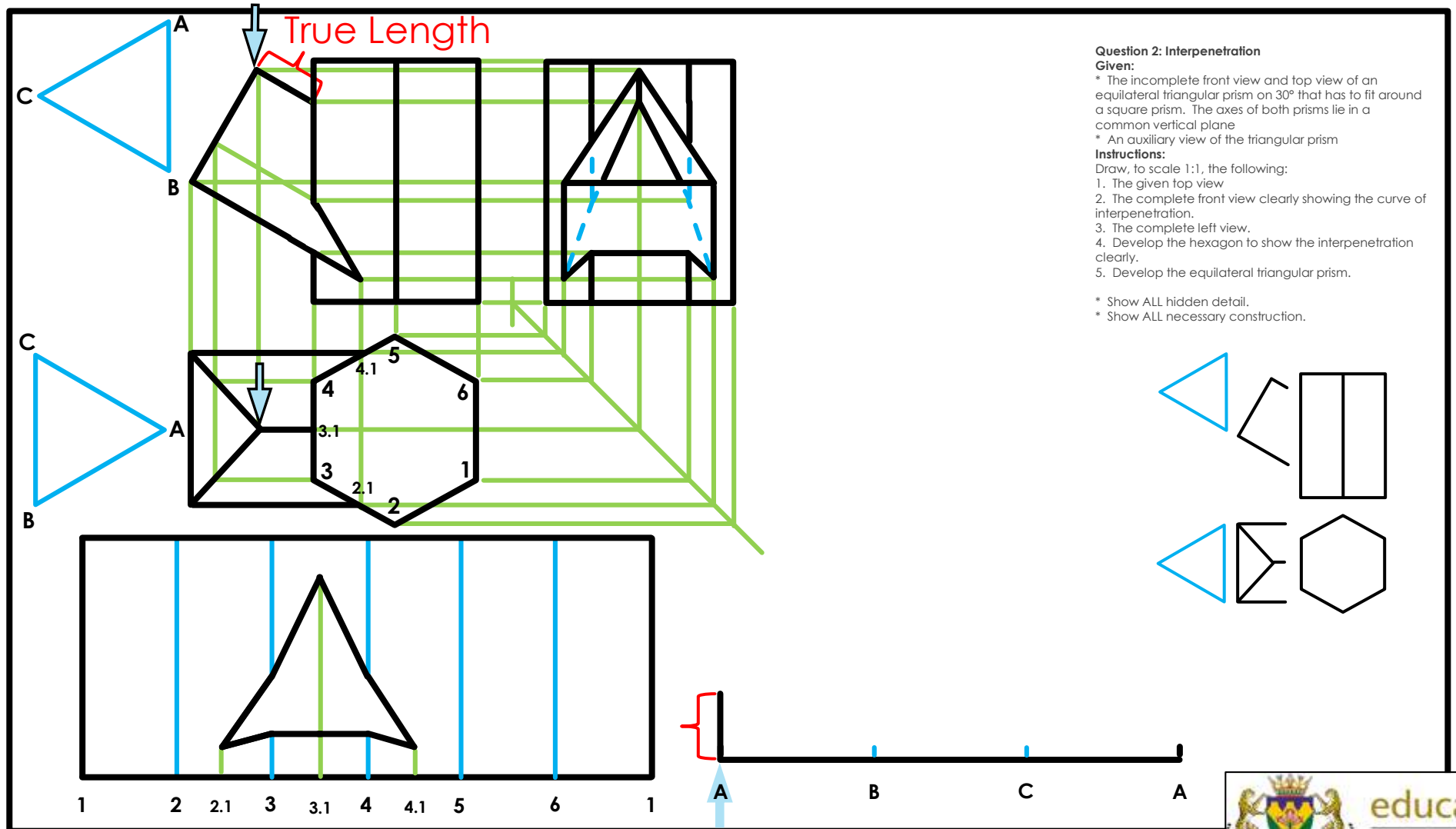
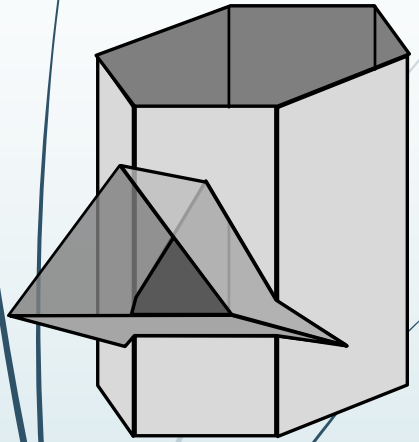
1. The given top view
2. The complete front view clearly showing the curve of interpenetration.
3. The complete left view.
4. Develop the hexagon to show the interpenetration clearly.
5. Develop the equilateral triangular prism.

* Show ALL hidden detail.

* Show ALL necessary construction.



Interpenetrations & Development

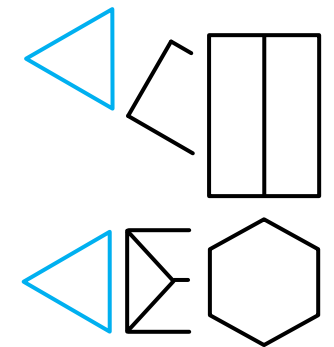


Question 2: Interpenetration

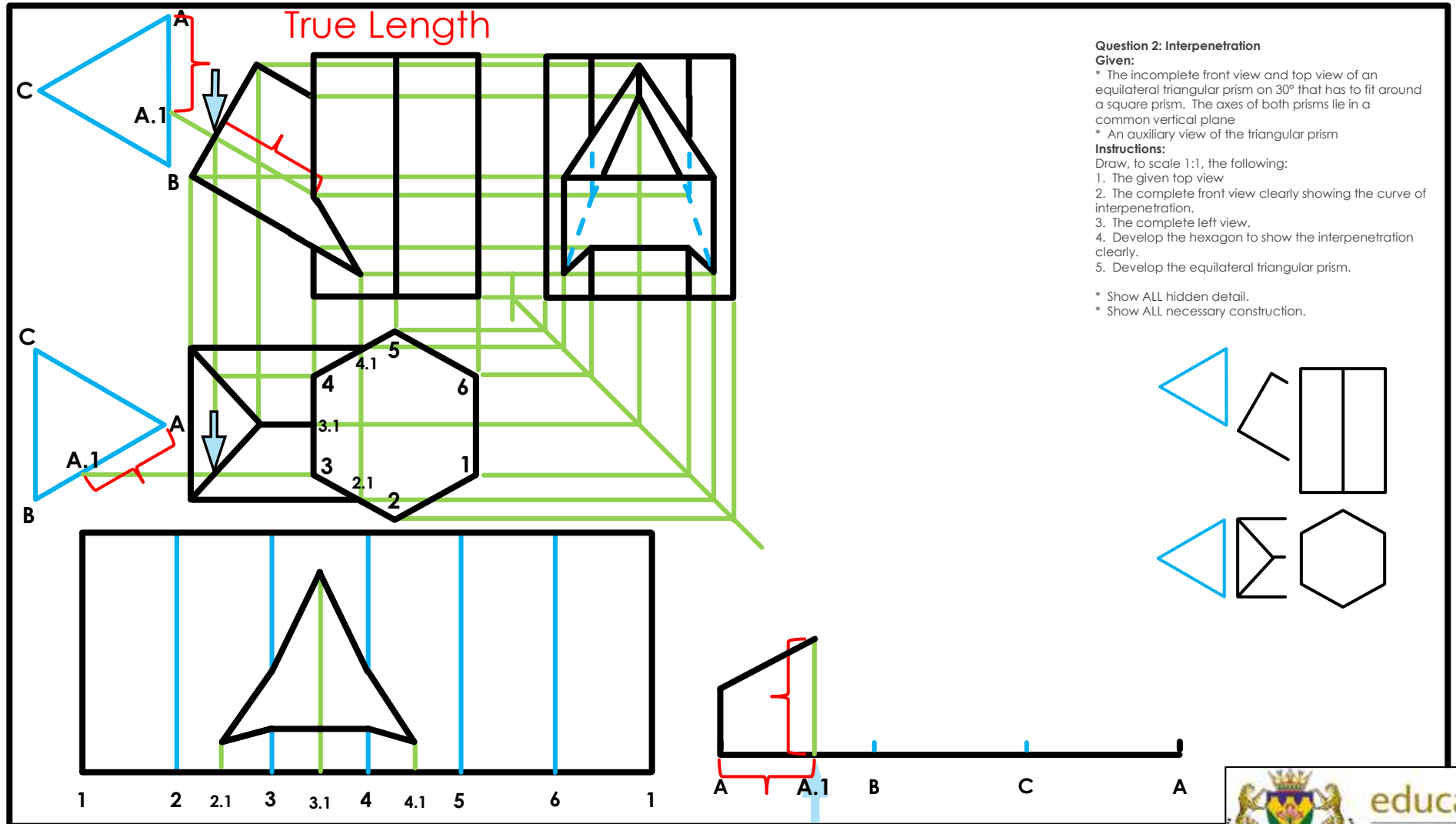
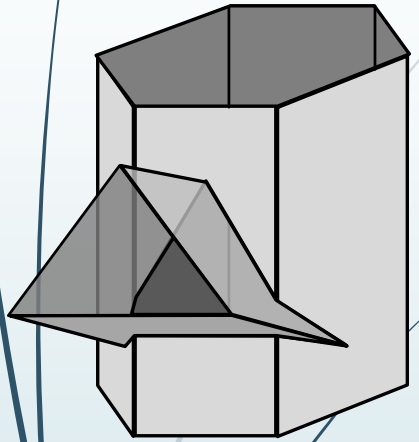
Given:
 * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
 * An auxiliary view of the triangular prism

- Instructions:**
 Draw, to scale 1:1, the following:
 1. The given top view
 2. The complete front view clearly showing the curve of interpenetration.
 3. The complete left view.
 4. Develop the hexagon to show the interpenetration clearly.
 5. Develop the equilateral triangular prism.

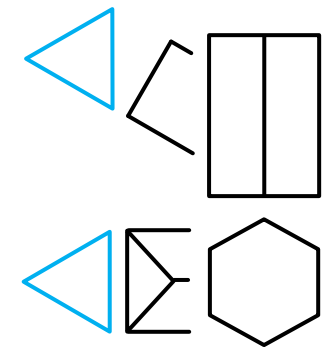
* Show ALL hidden detail.
 * Show ALL necessary construction.



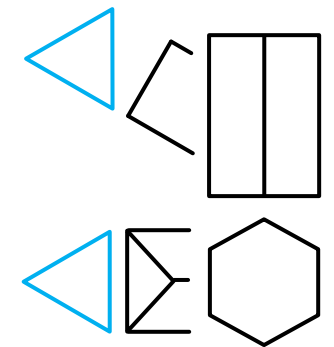
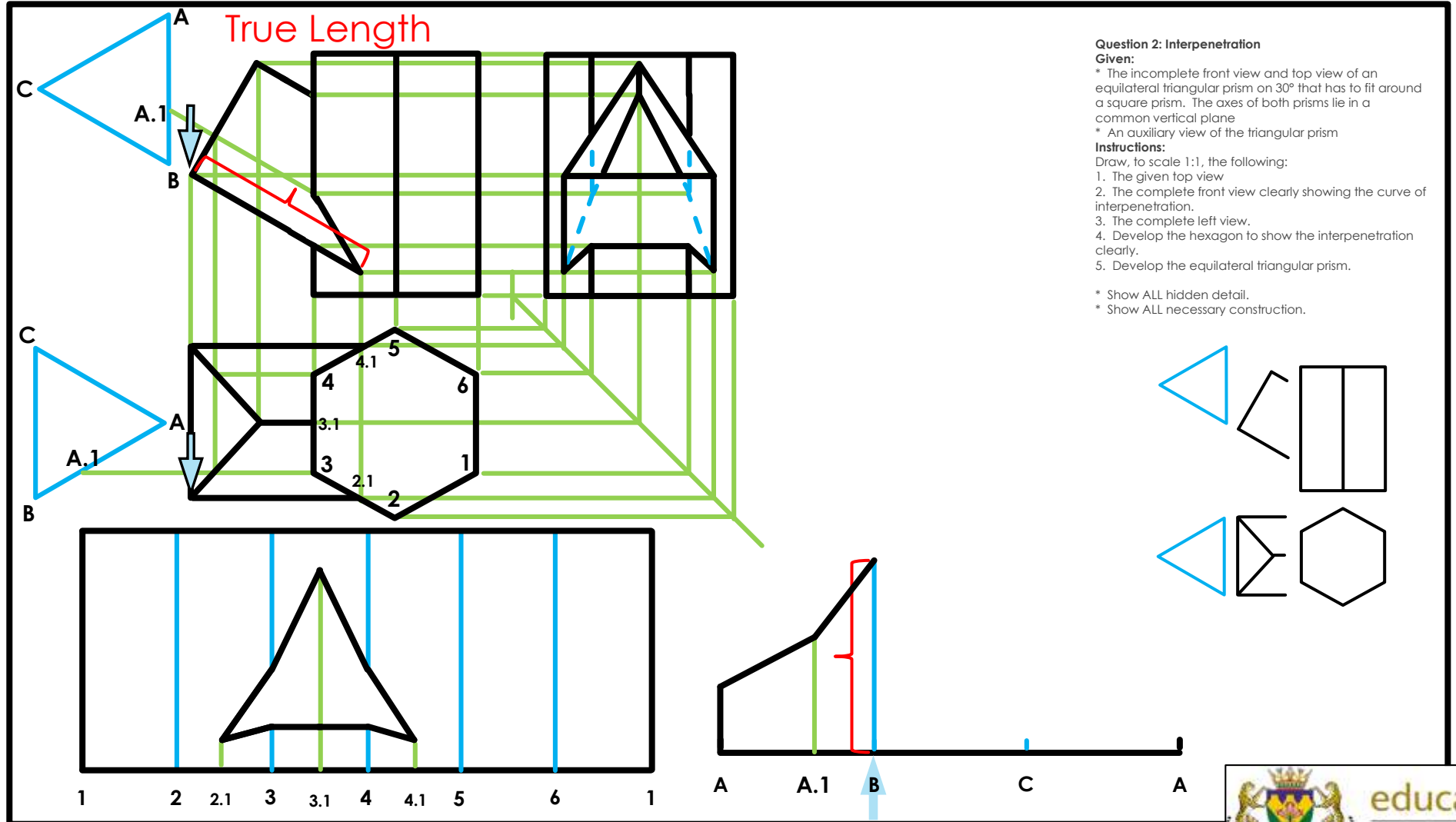
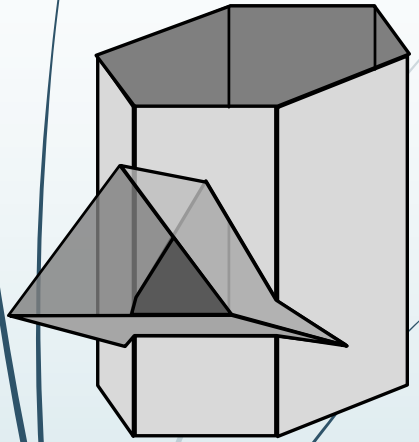
Interpenetrations & Development



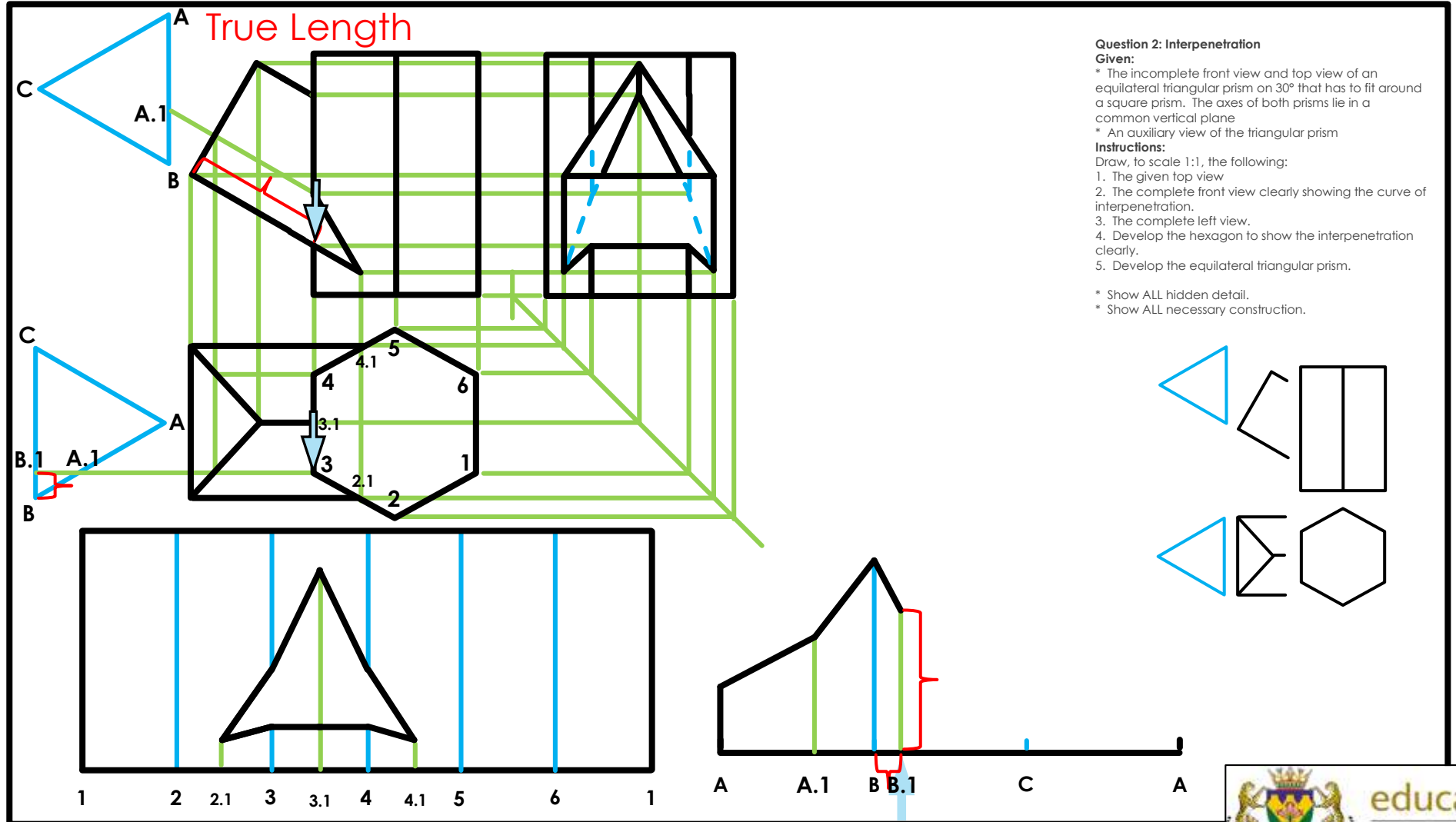
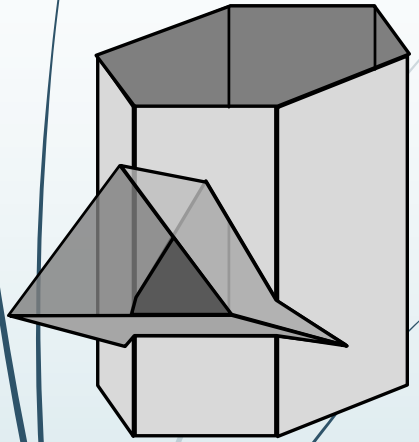
Question 2: Interpenetration
Given:
 * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
 * An auxiliary view of the triangular prism
Instructions:
 Draw, to scale 1:1, the following:
 1. The given top view
 2. The complete front view clearly showing the curve of interpenetration.
 3. The complete left view.
 4. Develop the hexagon to show the interpenetration clearly.
 5. Develop the equilateral triangular prism.
 * Show ALL hidden detail.
 * Show ALL necessary construction.



Interpenetrations & Development



Interpenetrations & Development



Question 2: Interpenetration

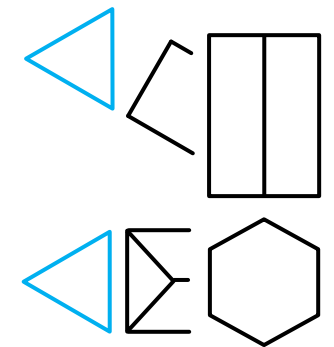
Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

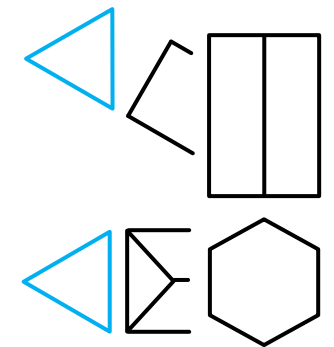
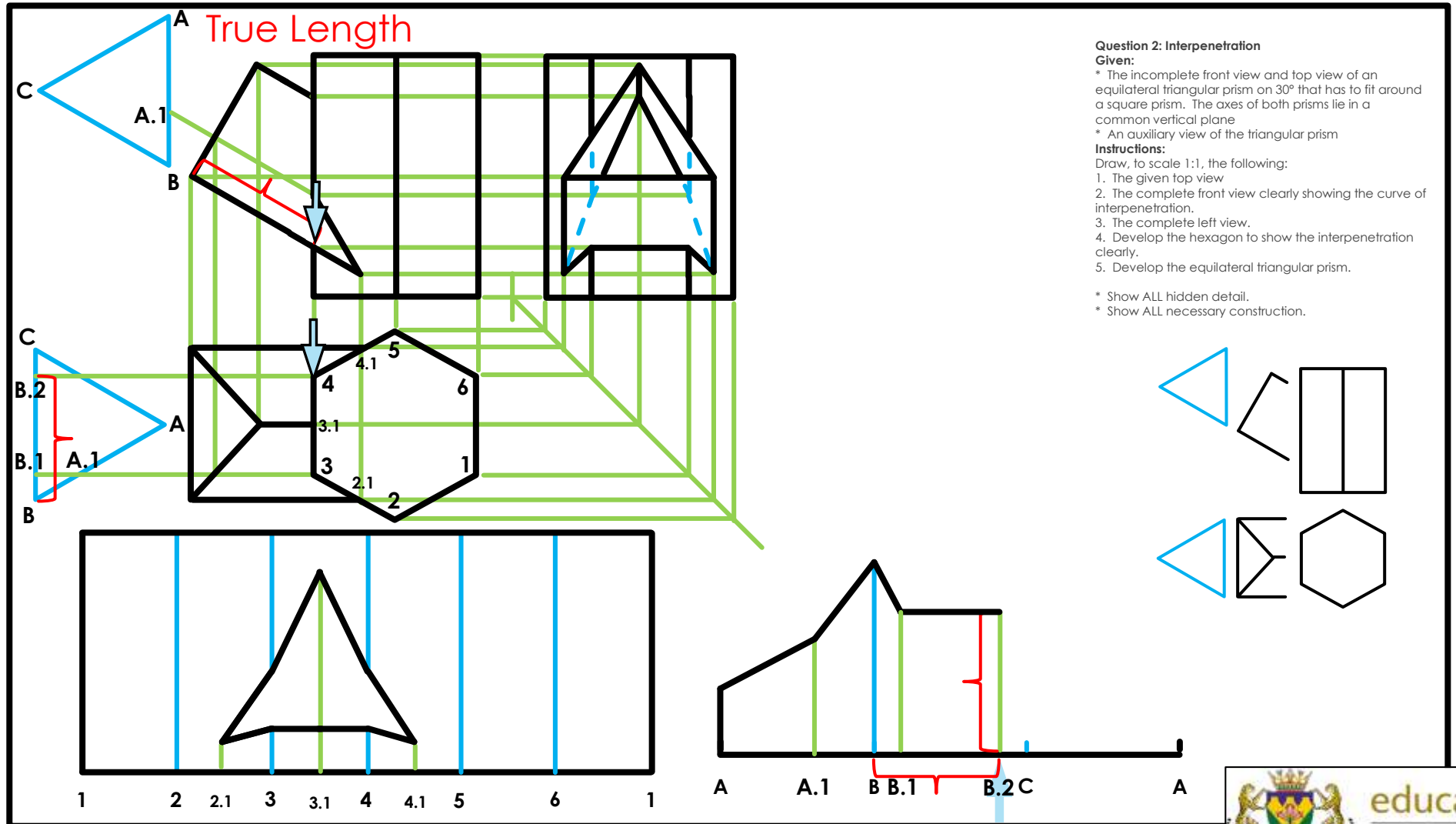
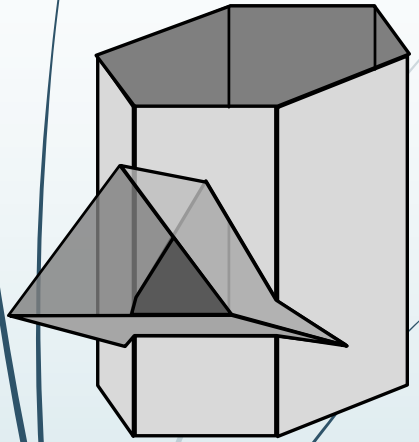
Instructions:

- Draw, to scale 1:1, the following:
1. The given top view
 2. The complete front view clearly showing the curve of interpenetration.
 3. The complete left view.
 4. Develop the hexagon to show the interpenetration clearly.
 5. Develop the equilateral triangular prism.

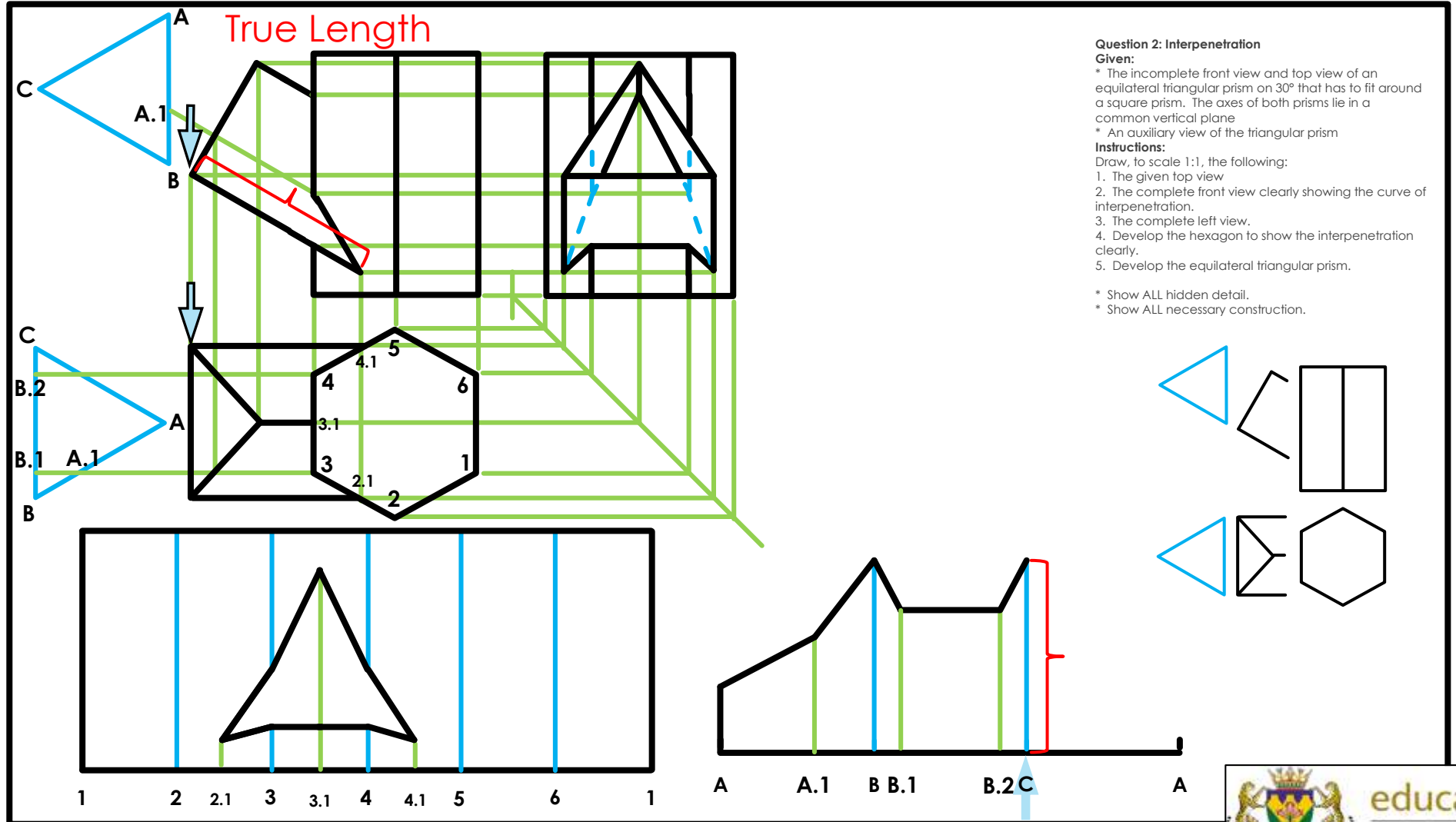
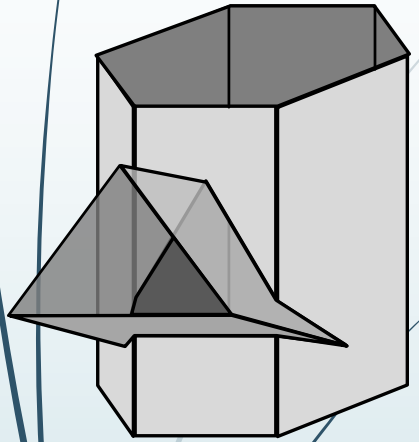
- * Show ALL hidden detail.
- * Show ALL necessary construction.



Interpenetrations & Development



Interpenetrations & Development



Question 2: Interpenetration

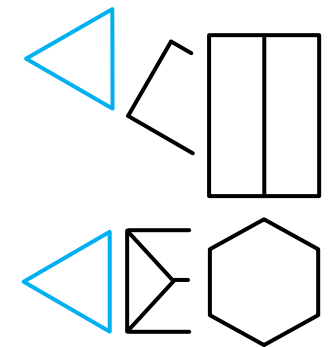
Given:

- * The incomplete front view and top view of an equilateral triangular prism on 30° that has to fit around a square prism. The axes of both prisms lie in a common vertical plane
- * An auxiliary view of the triangular prism

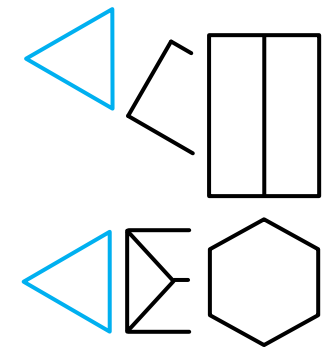
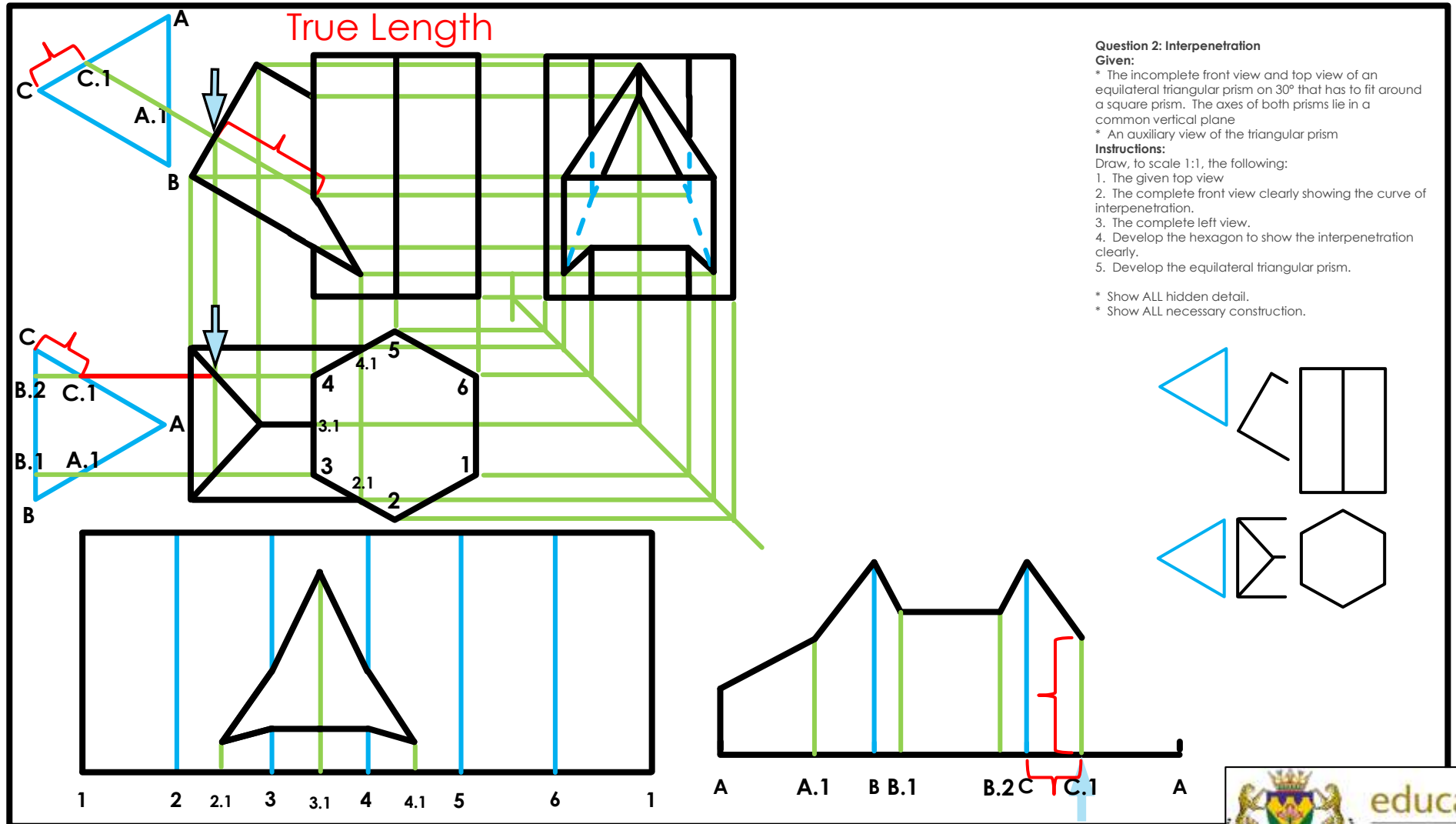
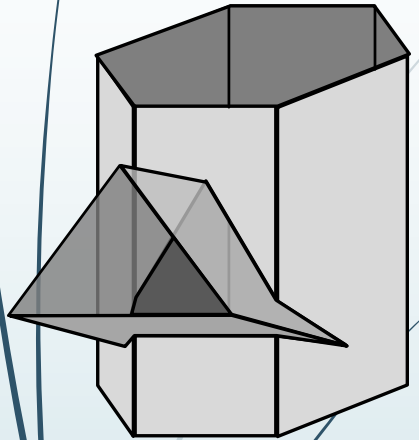
Instructions:

- Draw, to scale 1:1, the following:
1. The given top view
 2. The complete front view clearly showing the curve of interpenetration.
 3. The complete left view.
 4. Develop the hexagon to show the interpenetration clearly.
 5. Develop the equilateral triangular prism.

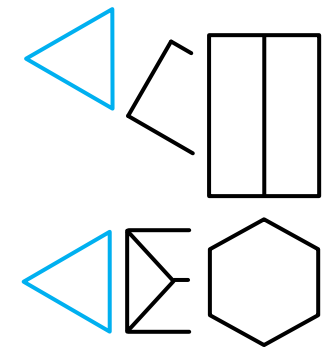
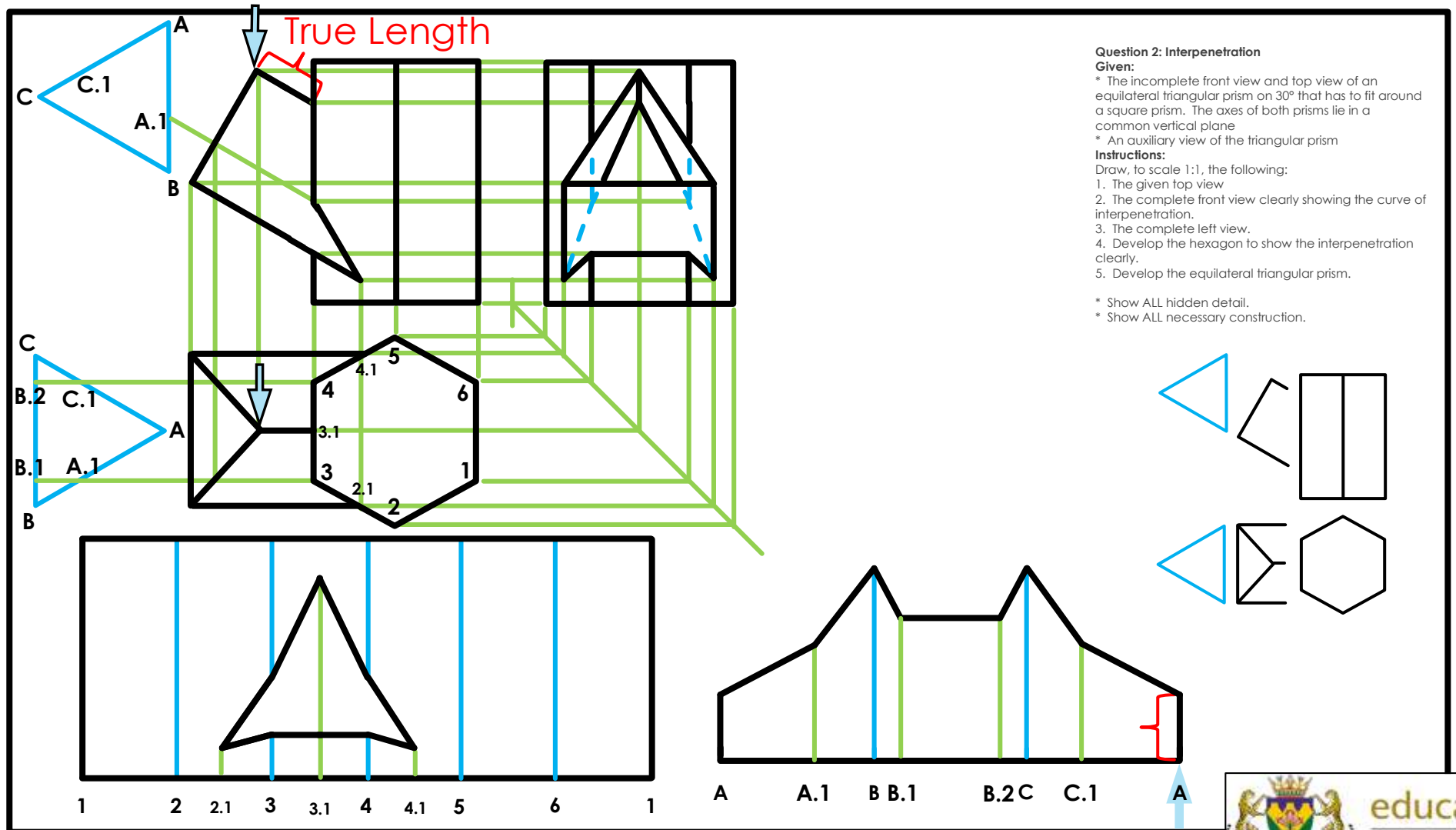
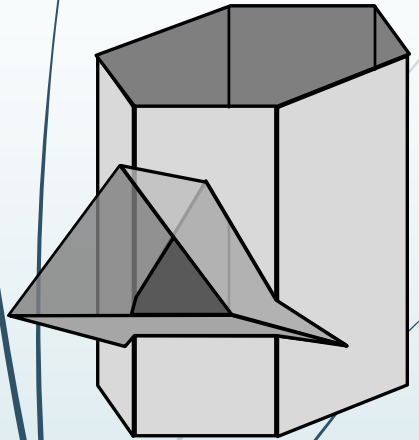
- * Show ALL hidden detail.
- * Show ALL necessary construction.



Interpenetrations & Development



Interpenetrations & Development



Interpenetrations & Development

