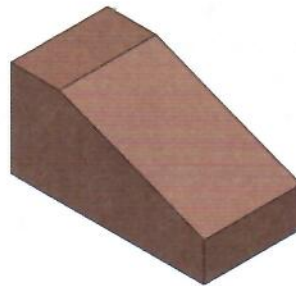


Exercise 1: Sketch and Extrude 1

Create this part using the information and dimensions provided. Sketch and extrude profiles to create this part.

This lab reinforces the following skills:

- *Introducing: New Part* on page 27.
- *Sketching* on page 29.
- *Inference Lines (Automatic Relations)* on page 34.
- *Dimensions* on page 45.
- *Extrude* on page 49.



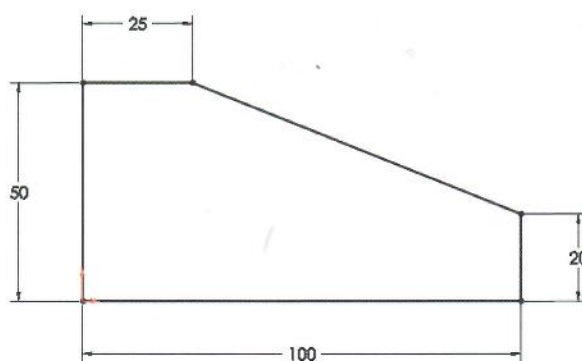
Units: **millimeters**

1 New part.

Create a new part using the Part_MM template.

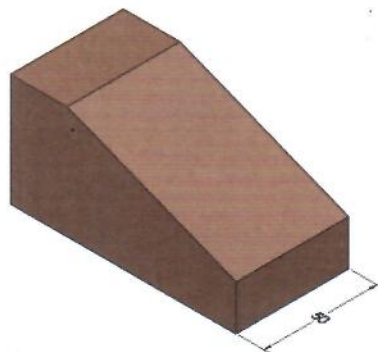
2 Sketch.

Create this sketch on the Front Plane using lines, automatic relations and dimensions.



3 Extrude.

Extrude the sketch **50mm** in depth.



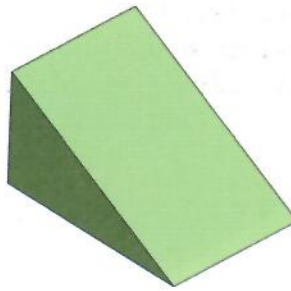
4 Save and close the part.

**Exercise 2:
Sketch and
Extrude 2**

Create this part using the information and dimensions provided. Sketch and extrude profiles to create this part.

This lab reinforces the following skills:

- *Introducing: New Part* on page 27.
- *Sketching* on page 29.
- *Inference Lines (Automatic Relations)* on page 34.
- *Dimensions* on page 45.
- *Extrude* on page 49.



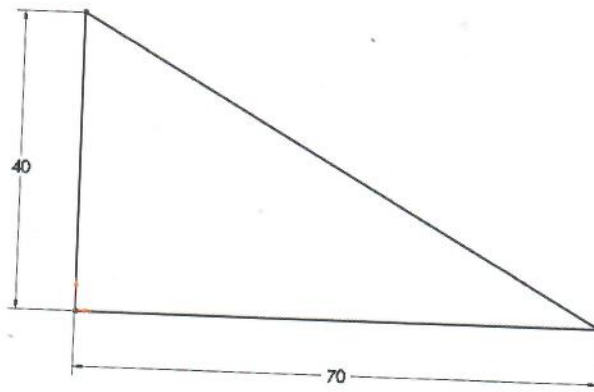
Units: **millimeters**

1 New part.

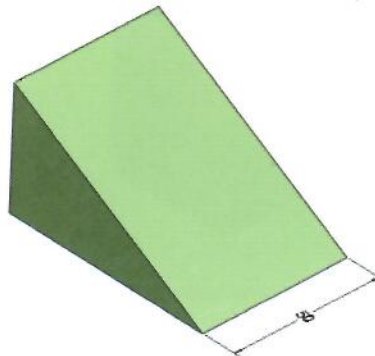
Create a new part using the Part_MM template.

2 Sketch.

Create this sketch on the Front Plane using lines, automatic relations and dimensions.

**3 Extrude.**

Extrude the sketch **50mm** in depth.

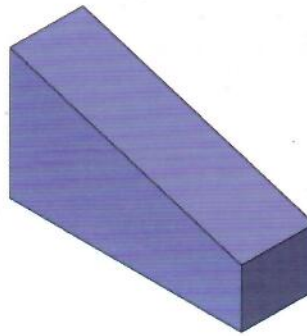
**4 Save and close the part.**

Exercise 3: Sketch and Extrude 3

Create this part using the information and dimensions provided. Sketch and extrude profiles to create this part.

This lab reinforces the following skills:

- *Introducing: New Part* on page 27.
- *Sketching* on page 29.
- *Inference Lines (Automatic Relations)* on page 34.
- *Dimensions* on page 45.
- *Extrude* on page 49.



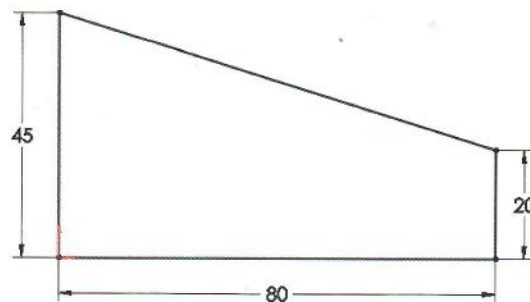
Units: **millimeters**

1 New part.

Create a new part using the Part_MM template.

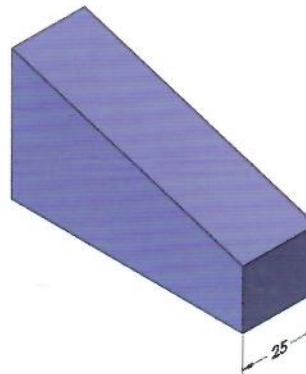
2 Sketch.

Create this sketch on the Front Plane using lines, automatic relations and dimensions.



3 Extrude.

Extrude the sketch **25mm** in depth.



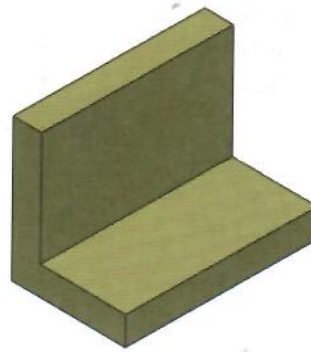
4 Save and close the part.

**Exercise 4:
Sketch and
Extrude 4**

Create this part using the information and dimensions provided. Sketch and extrude profiles to create this part.

This lab reinforces the following skills:

- *Introducing: New Part* on page 27.
- *Sketching* on page 29.
- *Inference Lines (Automatic Relations)* on page 34.
- *Dimensions* on page 45.
- *Extrude* on page 49.



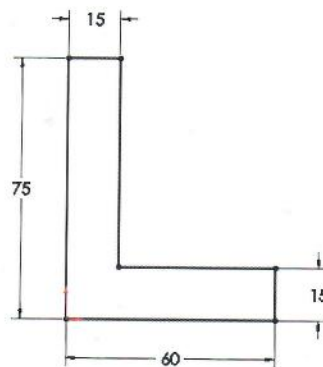
Units: millimeters

1 New part.

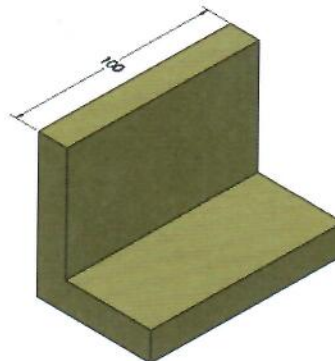
Create a new part using the Part_MM template.

2 Sketch.

Create this sketch on the Front Plane using lines, automatic relations and dimensions.

**3 Extrude.**

Extrude the sketch 100mm in depth.

**4 Save and close the part.**

Exercise 5: Sketch and Extrude 5

Create this part using the information and dimensions provided. Sketch and extrude profiles to create the part.

This lab reinforces the following skills:

- *Introducing: New Part* on page 27.
- *Sketching* on page 29.
- *Inference Lines (Automatic Relations)* on page 34.
- *Dimensions* on page 45.
- *Extrude* on page 49.

Units: **millimeters**

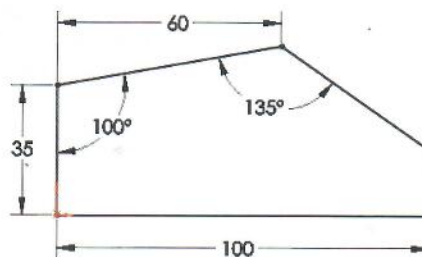
1 New part.

Create a new part using the Part_MM template.

2 Sketch.

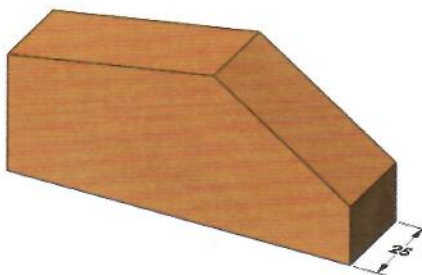
Create this sketch on the **Front Plane** using lines, automatic relations and dimensions.

Fully define the sketch.



3 Extrude.

Extrude the sketch **25mm** in depth.



4 Save and close the part.

**Exercise 6:
Sketch and
Extrude 6**

Create this part using the information and dimensions provided. Sketch and extrude profiles to create the part.

This lab reinforces the following skills:

- *Introducing: New Part* on page 27.
- *Sketching* on page 29.
- *Inference Lines (Automatic Relations)* on page 34.
- *Dimensions* on page 45.
- *Extrude* on page 49.

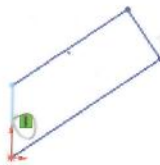
Units: **millimeters**

1 New part.

Create a new part using the **Part_MM** template.

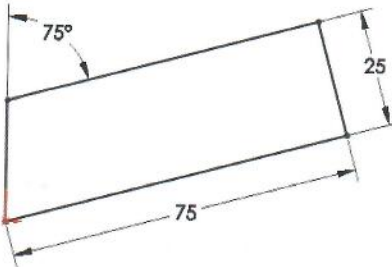
2 Automatic relations.

Create this sketch on the **Front Plane** using lines and automatic relations. Show the **Perpendicular** and **Vertical** relations.



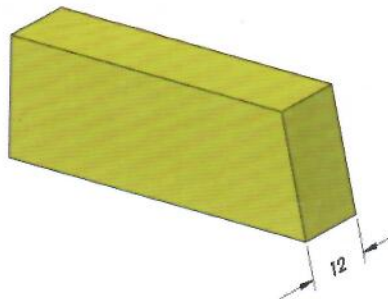
3 Dimensions.

Add dimensions to fully define the sketch.



4 Extrude.

Extrude the sketch **12mm**.



5 Save and close the part.