

Chapter: 6

Lesson title: Types of Triangles

Subject: math

Class: 10<sup>th</sup> grade





**GRADE: 10** 

UNIT: 2

Lesson: 2

## Classifying Triangles by their sides







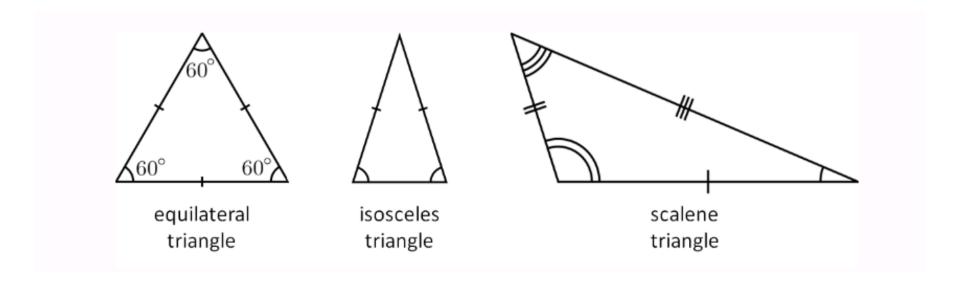
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#### Classifying by sides:

- 1. Equilateral Triangle.
- 2. Isosceles Triangle.
- 3. Scalene Triangle.







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## Classifying Triangles by their angles







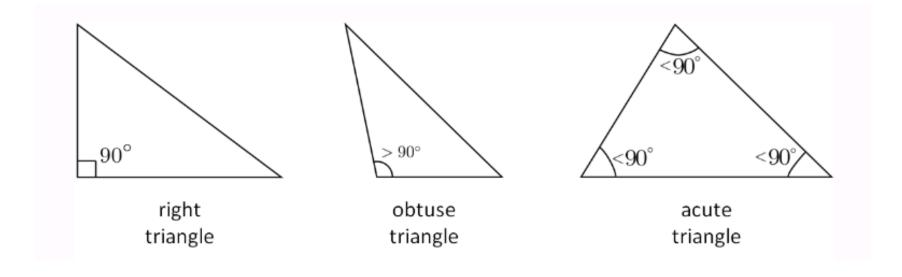
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#### Classifying by angles:

- 1. Acute-angled triangle.
- 2. Right-angled triangle.
- 3. Obtuse-angled triangle.



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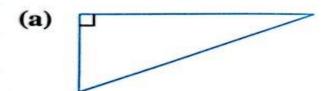
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## Exercise 6B page 180

#### xercise 6B

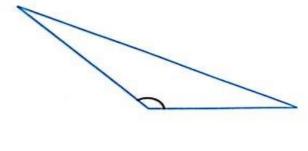
Name each of the following triangles according to

- (i) the lengths of its sides,
- (ii) the sizes of its angles.

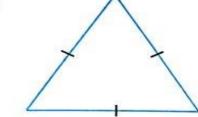


**(b)** 

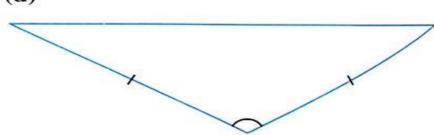








(d)



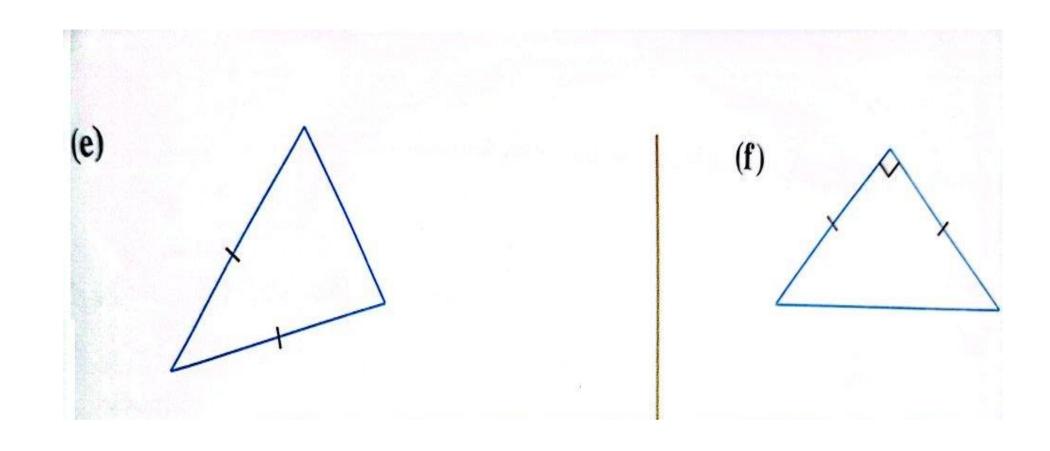
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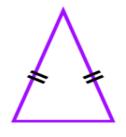
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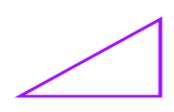
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#### Types of Triangles: Based on Sides





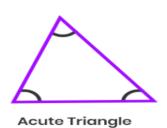


Isosceles Triangle 2 equal sides

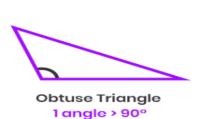
Scalene Triangle No equal sides

#### Types of Triangles : Based on Angles





3 angle < 90°









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### What is an angle?







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### What is an angle?

An angle is a figure formed by two rays that have the same endpoint.



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Obtuse

Right

Reflex

Acute

Straight

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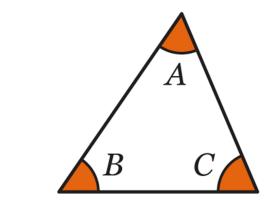
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#### Interior angles in a triangle



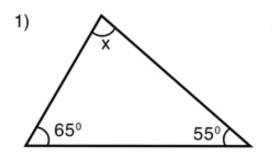
 $A + B + C = 180^{\circ}$ 

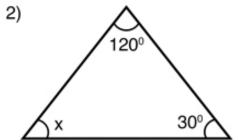


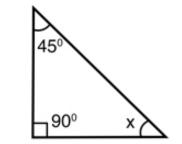
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3)











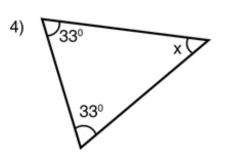


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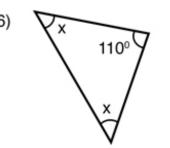
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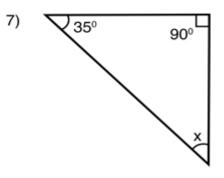
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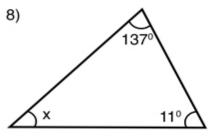
5) X 13°











x= \_\_\_\_\_





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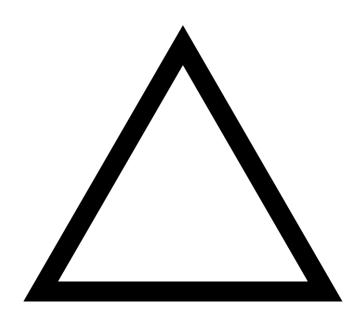
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A triangle has angles in the ratio 2:3:4. Find the measure of each angle.

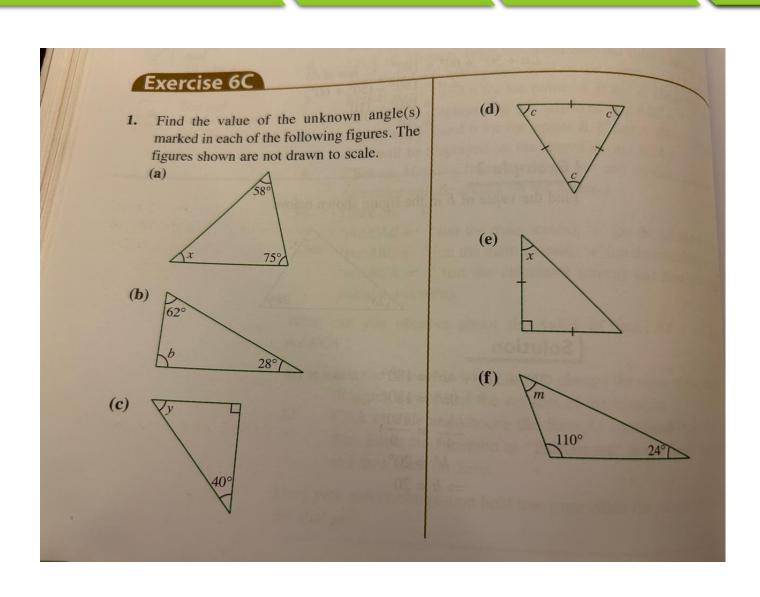






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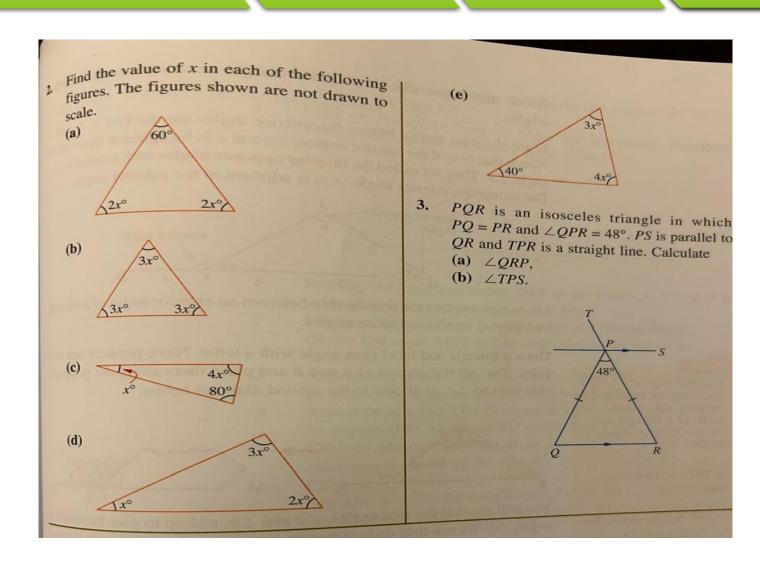
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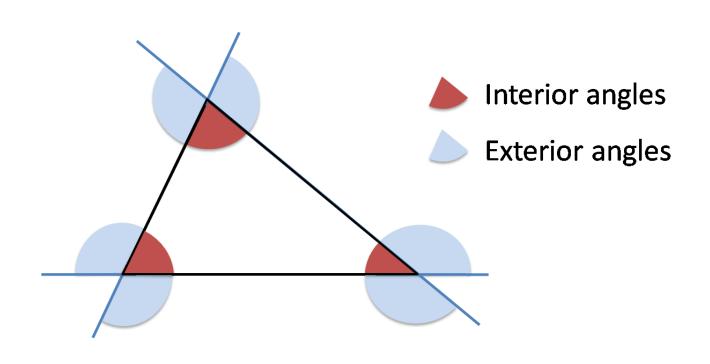
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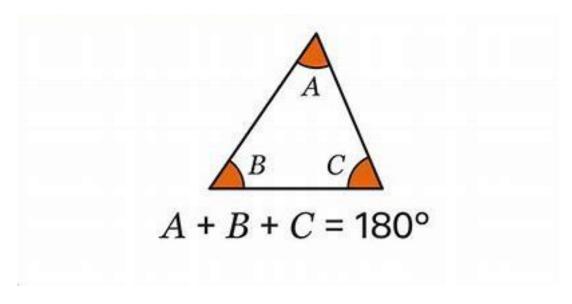


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# Interior Angle of triangle lie inside the triangle





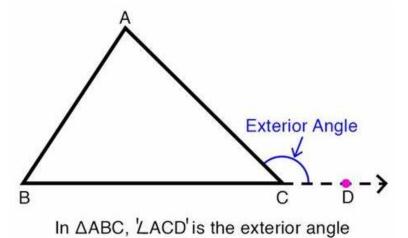


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# Exterior Angle of triangle lie outside the triangle





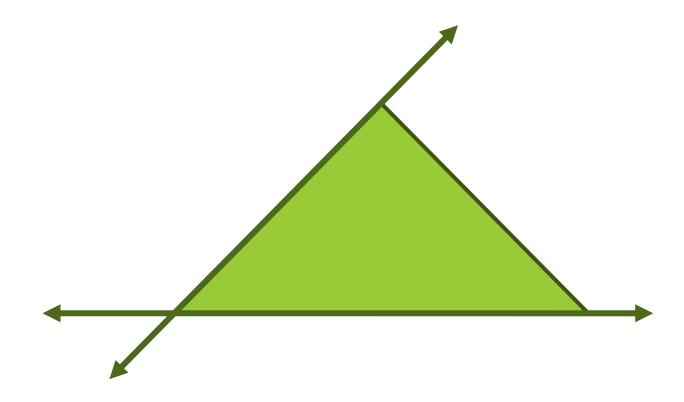


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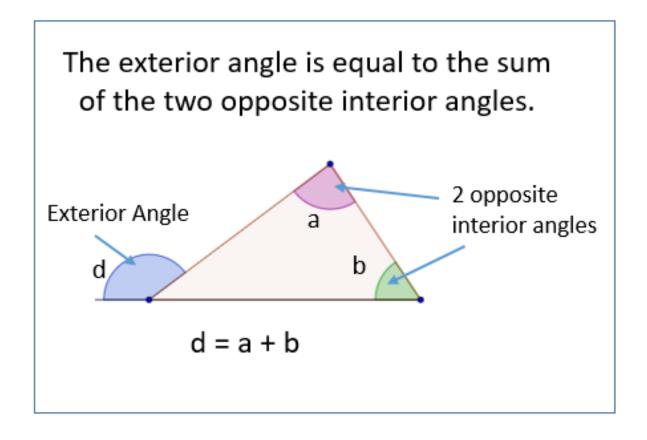
#### Label the exterior angles and their opposite angles!





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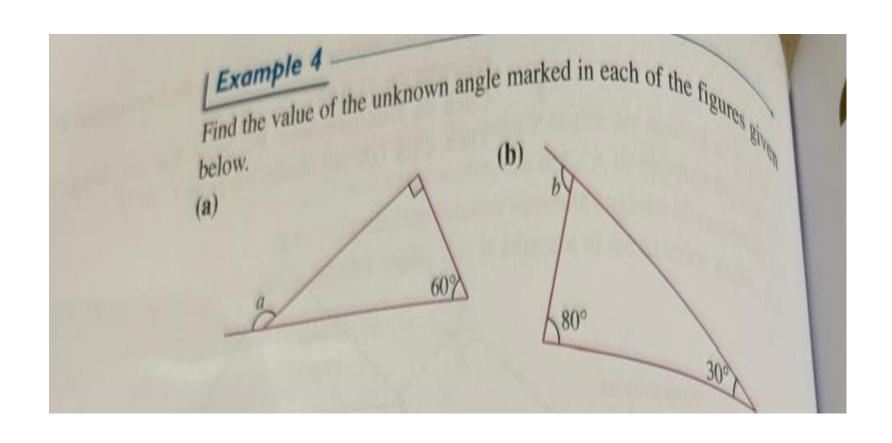
A ladder is leaning against a wall, forming a triangle with the ground and the wall. The ladder makes an angle of **65°** with the ground, and the angle between the wall and the ground is **90°**. The side of the triangle representing the ground is extended beyond the base of the ladder.

## Exterior angle= $25+90=115^{\circ}$

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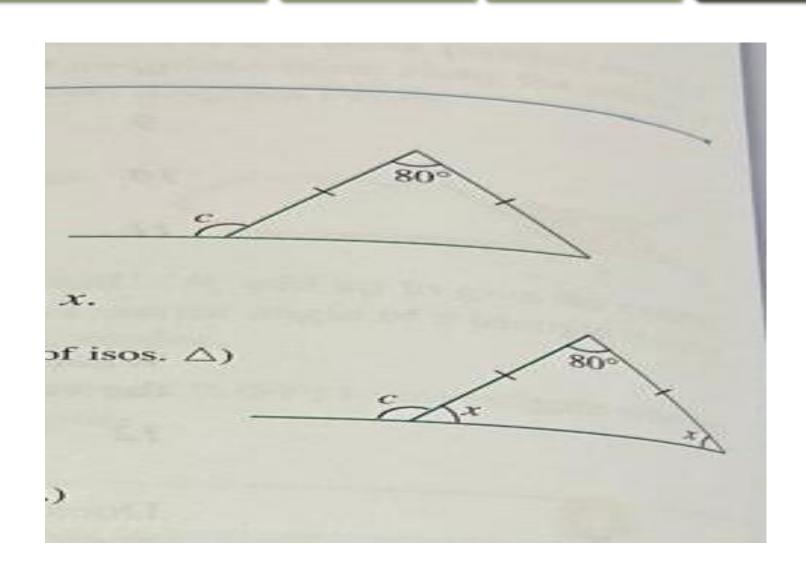
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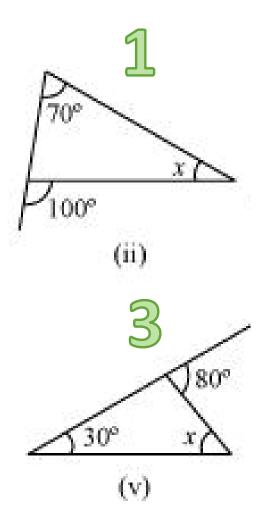
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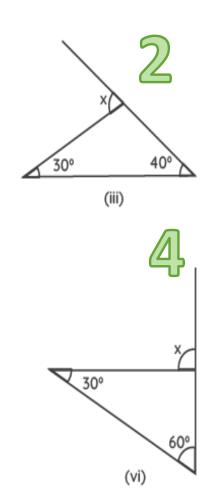


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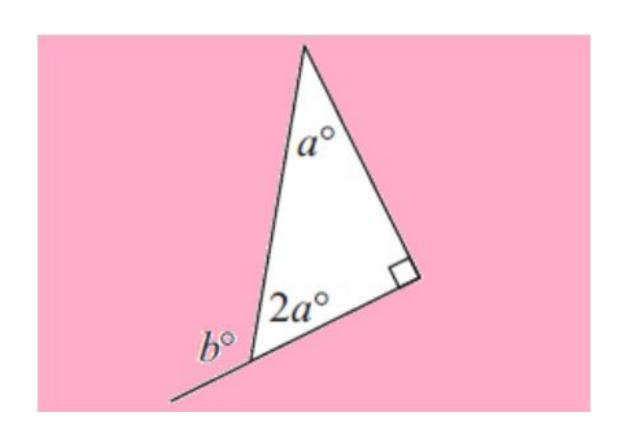
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#### Required Questions:

- P. 180 Q1
- P. 184 Q1,2
- P. 189 Q1,2