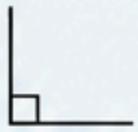
Name: _____ Date: _____

Identifying Angles in Geometric Diagrams

Year 8 – Geometry

There are four main types of angles. Use the diagrams and your measuring skills to identify and measure the angles in the questions below.

Acute
(less than 90°)



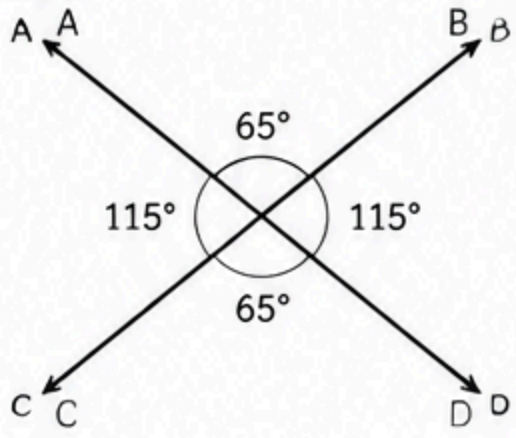
Right
(exactly 90°)

Obtuse
(greater than 90° and less than 180°)

Reflex
(greater than 180° and less than 360°)

1. Intersecting lines

For each angle labelled, identify the type of angle (acute, obtuse, right or reflex) and write the measure of the angle.



a) ∠A = _____ (type: _____)

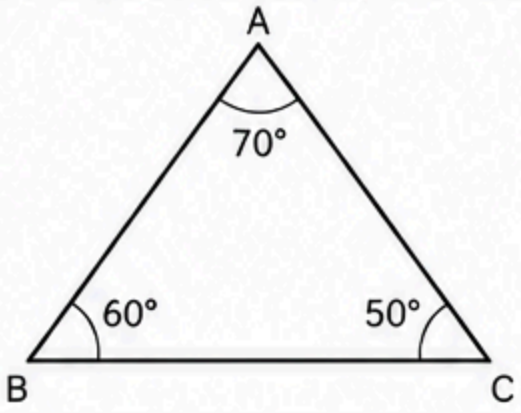
b) ∠B = _____ (type: _____)

c) ∠C = _____ (type: _____)

d) ∠D = _____ (type: _____)

2. Angles in a triangle

In the triangle below, identify and measure each labelled angle. State the type of angle for each.



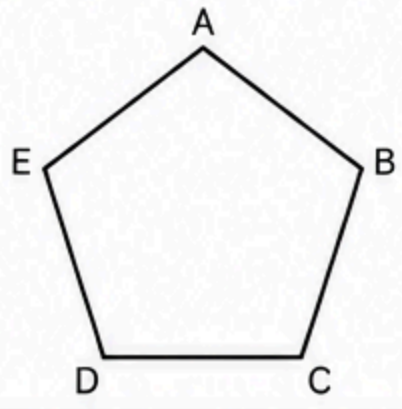
a) ∠A = _____ (type: _____)

b) ∠B = _____ (type: _____)

c) ∠C = _____ (type: _____)

3. Angles in a polygon

In the regular pentagon below, find the measure of the interior angle at each vertex. State the type of angle.



a) ∠A = _____ (type: _____)

b) ∠B = _____ (type: _____)

c) ∠C = _____ (type: _____)

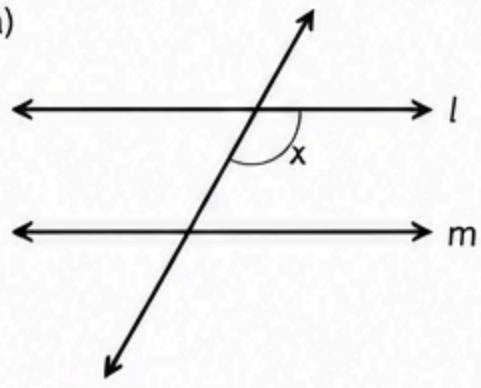
d) ∠D = _____ (type: _____)

e) ∠E = _____ (type: _____)

4. Mixed diagrams

For each diagram, identify the labelled angle and give its measure and type.

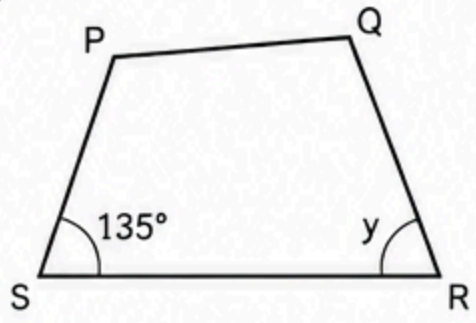
a)



∠x = _____

(type: _____)

b)



∠y = _____

(type: _____)