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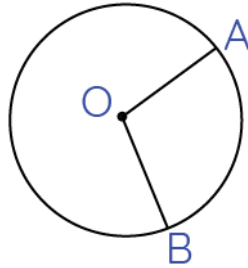
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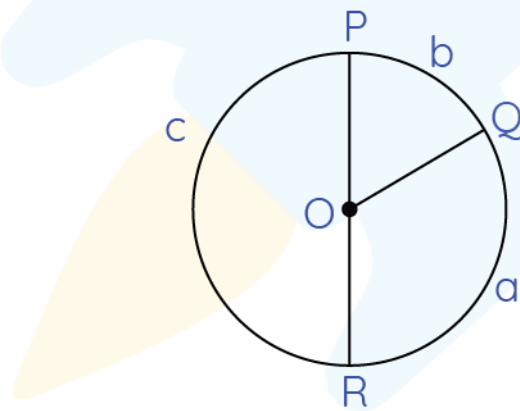
## Arcs and Central Angles Worksheets

1) Name the arc indicated by reflex  $\angle AOB$  in the below figure:

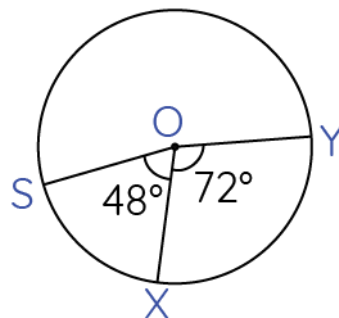


2) Any arc is measured in the \_\_\_\_\_ direction.

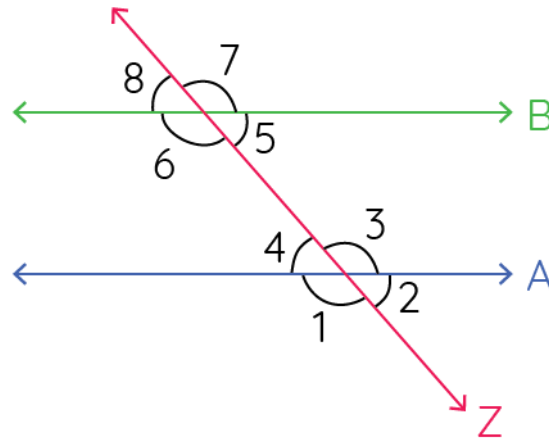
3) Find the length of the arc PQ in the given figure:



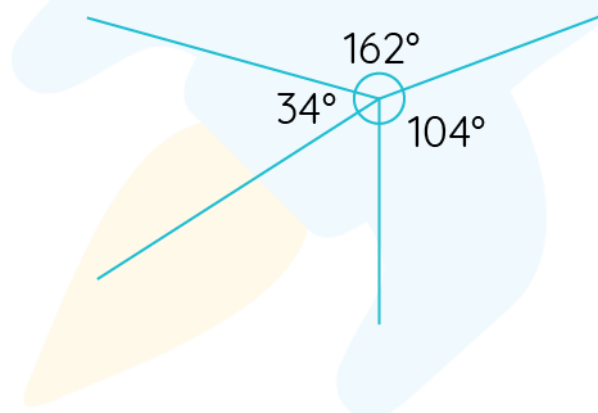
4) Find the angle measure of arc YX:



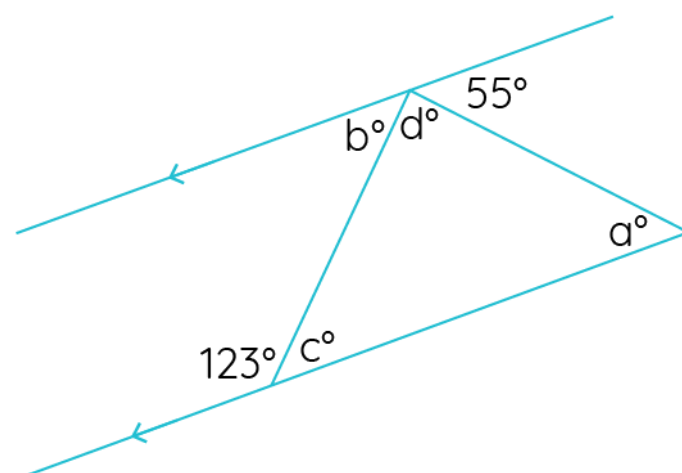
5) Check whether the given lines are parallel or not if the sum of measure of  $\angle 7$  and  $\angle 2$  is  $180^\circ$ .



6) Find the value of the missing angle.



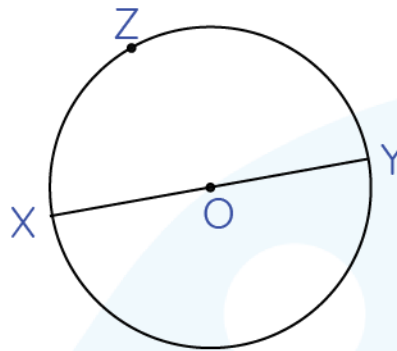
7) Find the measure of the angles  $a$ ,  $b$ ,  $c$ , and  $d$ .



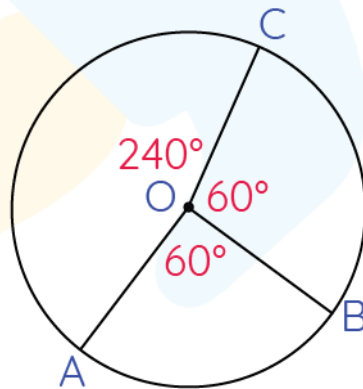
8) State whether true or false:

- A. A triangle can have two right angles.
- B. The interior and exterior angle of a polygon across a vertex are complementary.

9) If  $XY$  is a diameter, find the value of  $\angle XYZ$ .



10) Find the measure of the arc  $AB$  if the measure of arc  $AC$  is 48 units.



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- Gary Schwartz

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- Barbara Cabrera

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**ANSWERS**

1)	$AB$
2)	Anticlockwise
3)	$c + a$
4)	$288^\circ$
5)	Lines A and B are parallel because $\angle 7$ and $\angle 2$ are supplementary.
6)	$60^\circ$

7)	$a = 55^\circ; b = 57^\circ; c = 57^\circ; d = 68^\circ$
8)	A) False B) False
9)	$\angle XYZ = 90^\circ$
10)	12 units

## FUN FACT

1. An arc is a length on the circumference of a circle.
2. An arc is always measured in the anticlockwise direction.
3. The length of an arc depends on the angle formed by the arc.

