

## Question Block 10:

Given that  $\ell$  is a common tangent to two circles with centers  $P$  and  $Q$ , find the length of  $PQ$ .

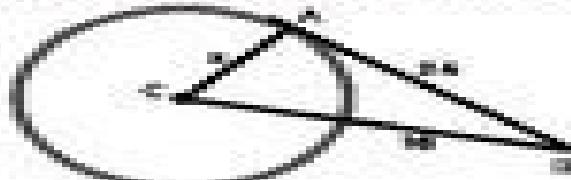


## Short Answer 10:

$\boxed{17}$  (approximate)

## Question Block 11:

If  $\ell$  is tangent to the circle with center  $P$ , find  $x$ .



## Short Answer 11:

Since  $\ell$  is tangent to the circle with center  $P$ , the radius  $PA$  is perpendicular to the line  $\ell$ .  $\angle BAC$  is an exterior angle to  $\angle BAP$ . Thus,  $x$  is an exterior angle to  $\angle BAP$ .

$$\angle BAP = \angle BAC = 108^\circ$$

Notice that  $\ell$  is a common tangent to both circles. The radius  $PA$  is perpendicular to the line  $\ell$ . The radius  $PC$  is perpendicular to the line  $\ell$ . Thus,  $\angle BAP = \angle CAP$ .

$$\angle BAP = \angle CAP = 54^\circ$$

$$\angle BAC = \angle BAP + \angle CAP = 108^\circ$$

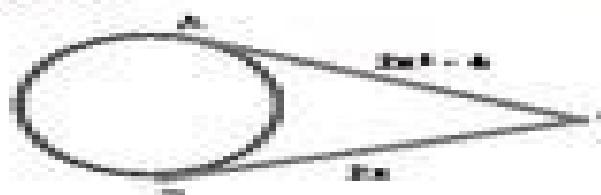
$$\angle BAC = 108^\circ + 54^\circ = 162^\circ$$

$$\angle BAC = 162^\circ$$

$\boxed{162}$

## Question Block 12:

Given that  $\ell$  is a common tangent to the two circles, find  $x$ .



## Short Answer 12:

**Key Concept: Tangent-Common Chord Theorem**  
 $\angle BAP = \angle BAC$

$$\angle BAP = \angle BAC = 2x$$

$$x + 12 = 2x + 15$$

$$$$

# 1practice Lines That Intersect Circles

**RD Boyd**

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