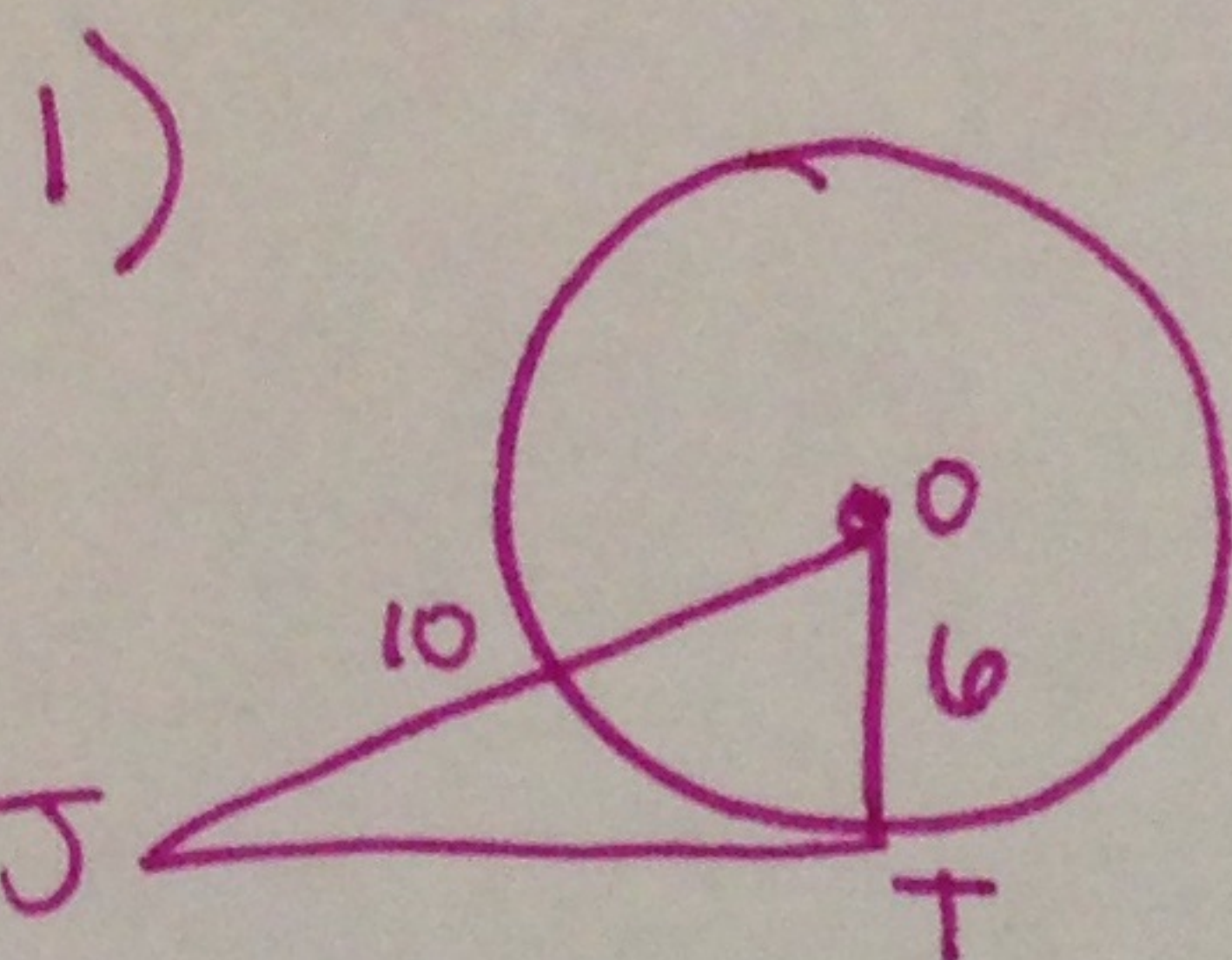


# Tangent Review

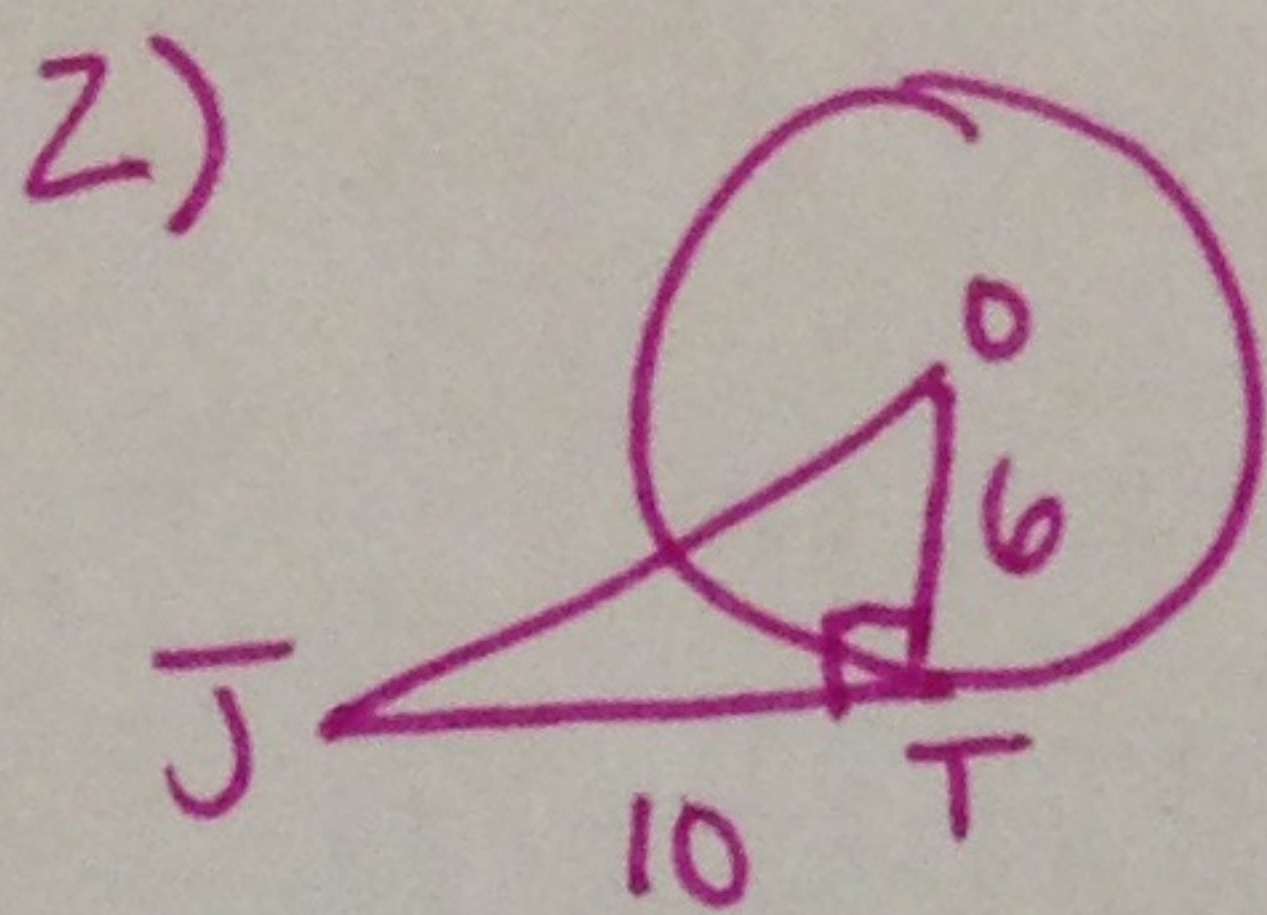


$$10^2 = JT^2 + 6^2$$

$$100 = JT^2 + 36$$

$$64 = JT^2$$

$$8 = JT$$

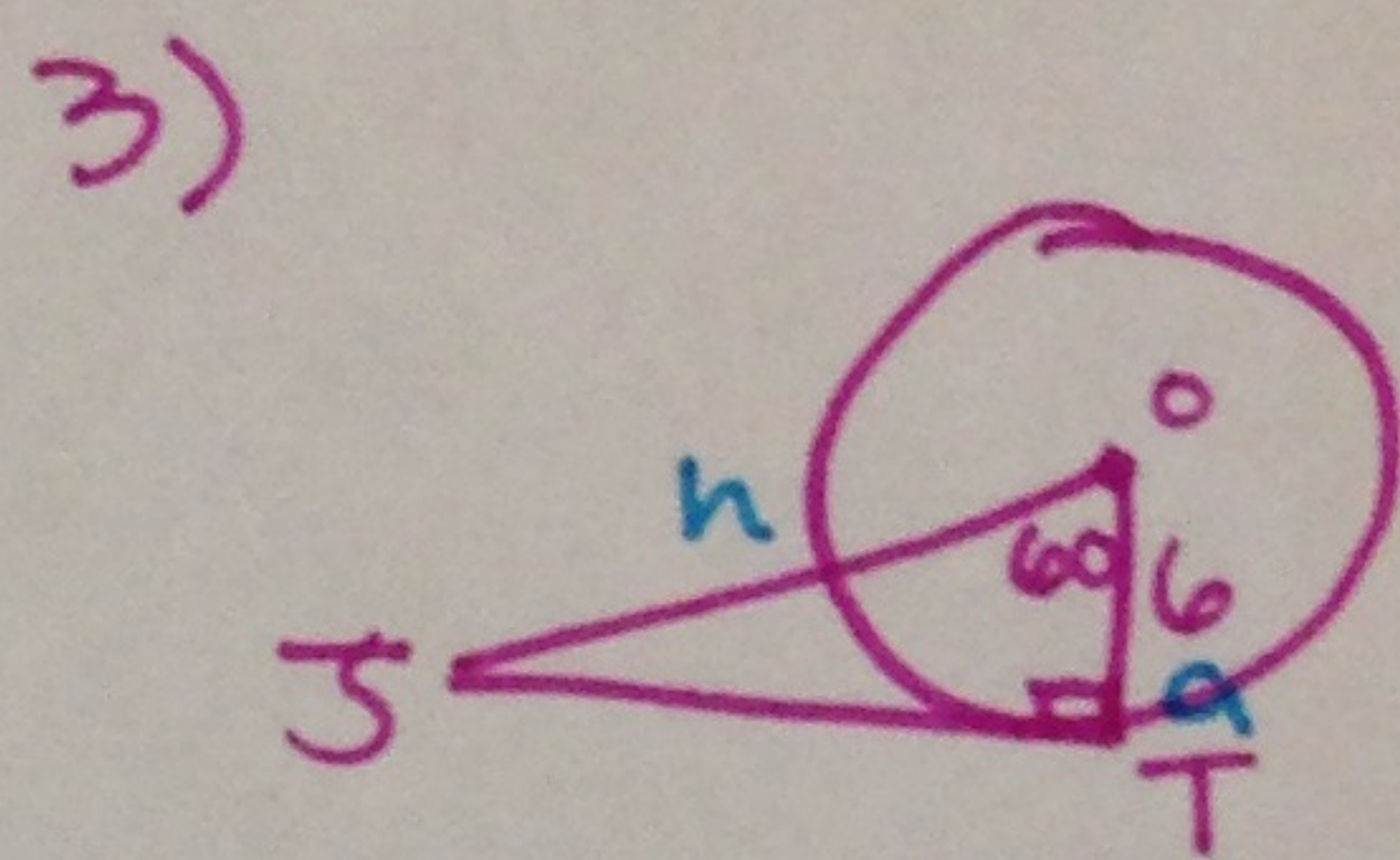


$$10^2 + 6^2 = JO^2$$

$$100 + 36 = JO^2$$

$$136 = JO^2$$

$$2\sqrt{34} = JO$$

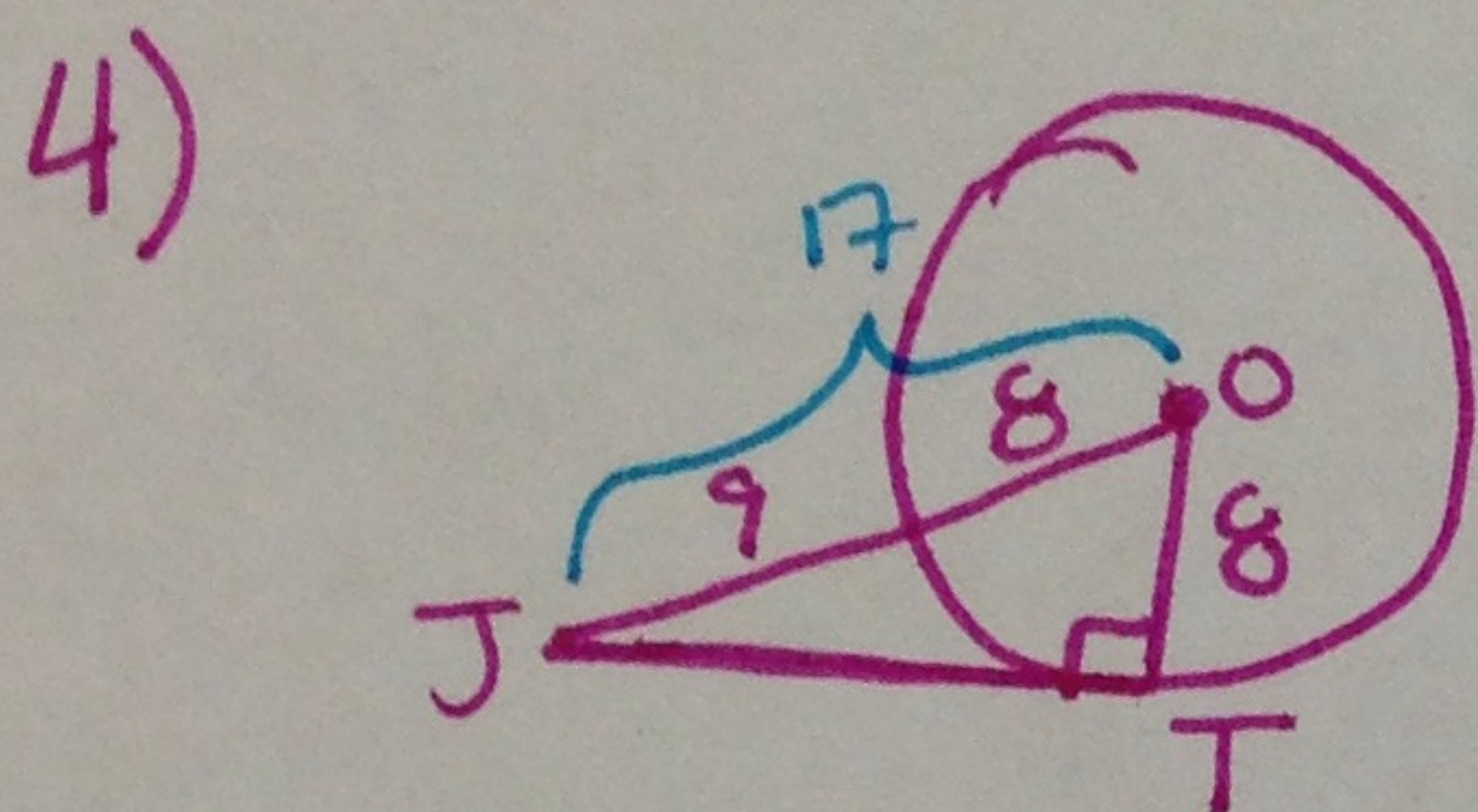


$$\cos 60 = \frac{6}{h}$$

$$h \cdot \cos 60 = 6$$

$$h = \frac{6}{\cos 60}$$

$$h = 12$$



$$17^2 = 8^2 + JT^2$$

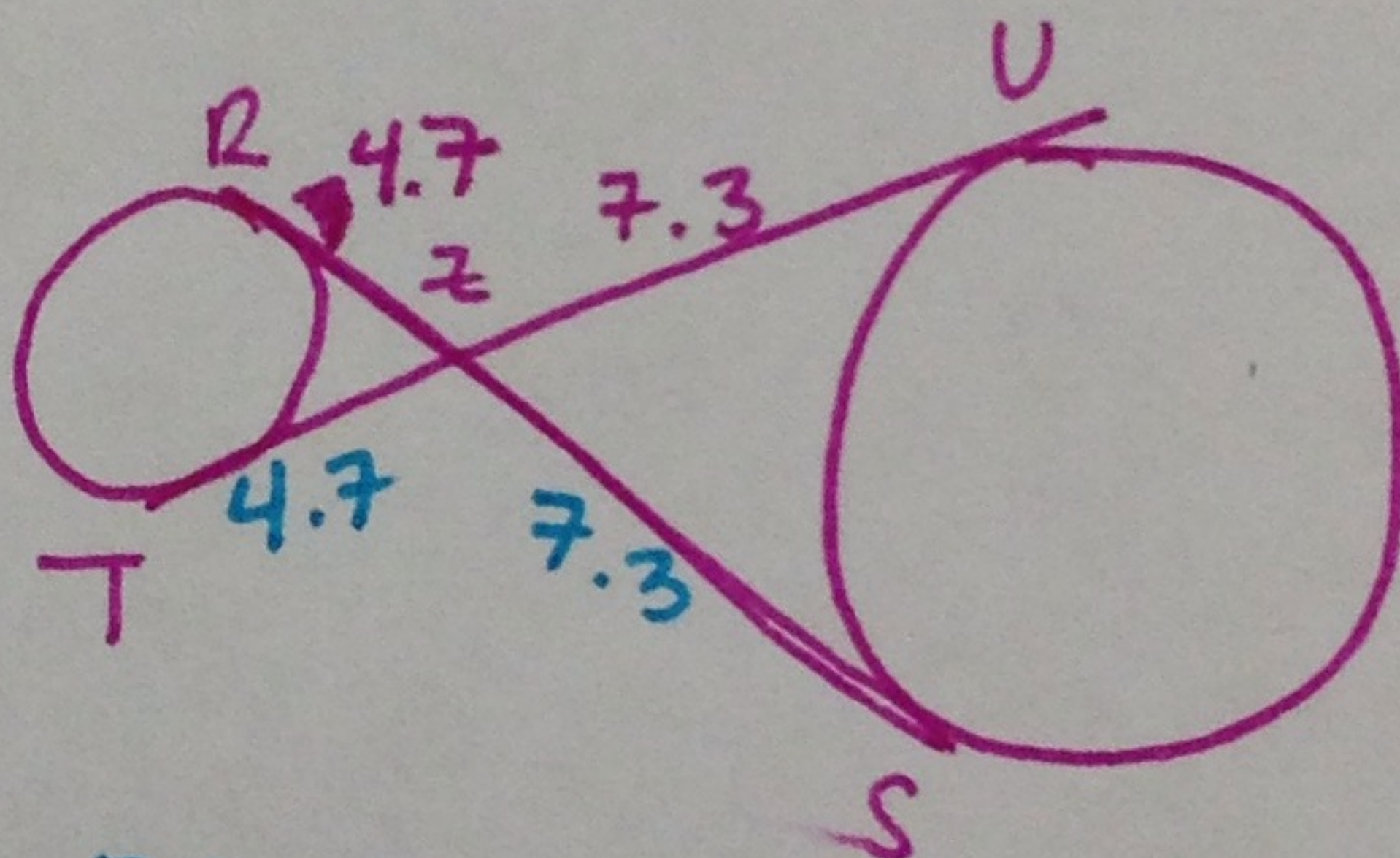
$$289 = 64 + JT^2$$

$$225 = JT^2$$

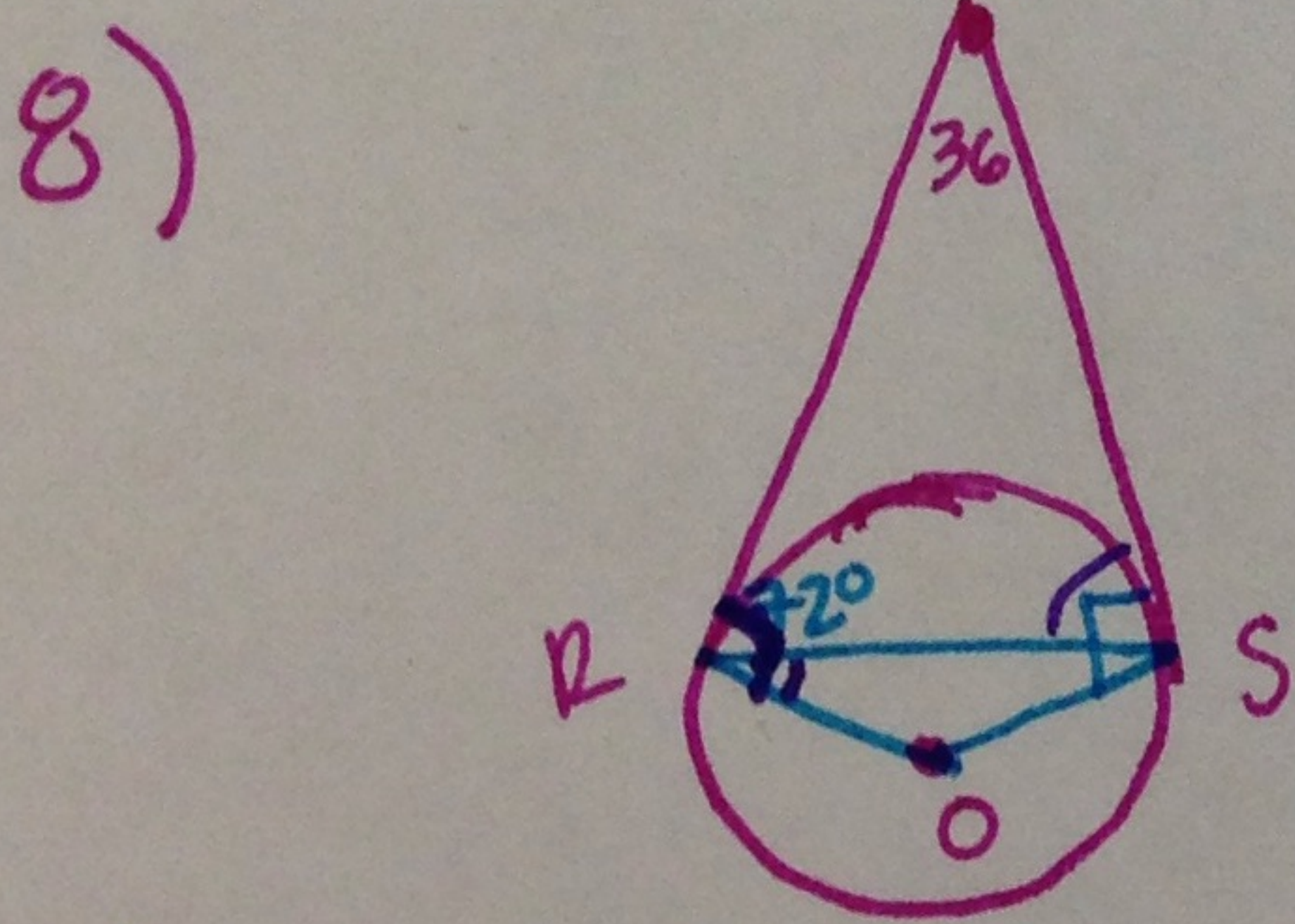
$$JT = 15$$

5)  $PD = 8.2$

6)



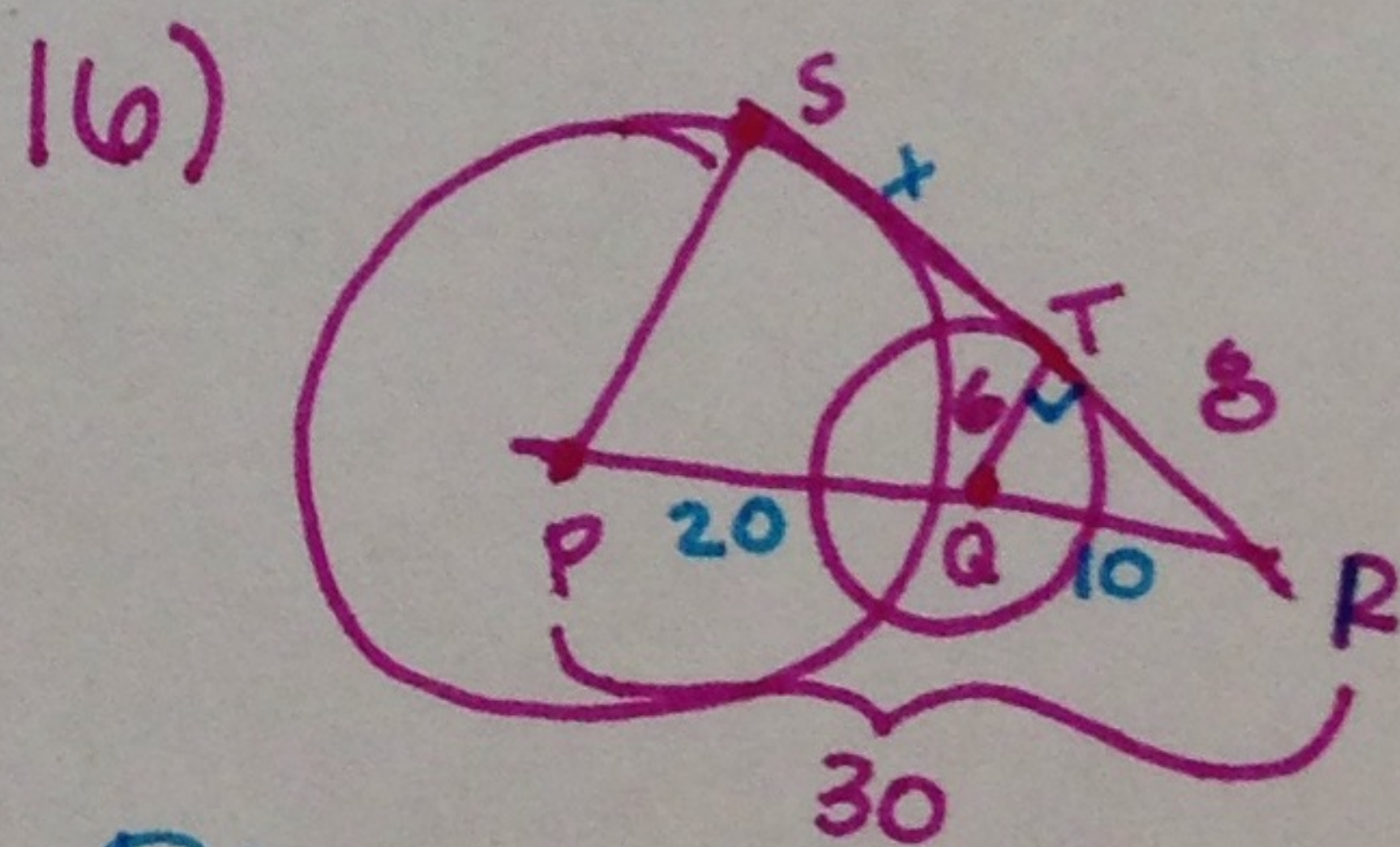
$$RS = TU = 12$$



a)  $\frac{180 - 36}{2} = \frac{144}{2} = 72^\circ = m\angle TSR = m\angle TRS$

b)  $\angle ORS = m\angle OSR = 90 - 72 = 18^\circ$

c)  $\angle ROS = 180 - 36 = 124^\circ$



$$PQ = 30 - 10 = 20$$

$$PS = \frac{10}{30} = \frac{6}{PS}$$

$$10PS = 180$$

$$PS = 18$$

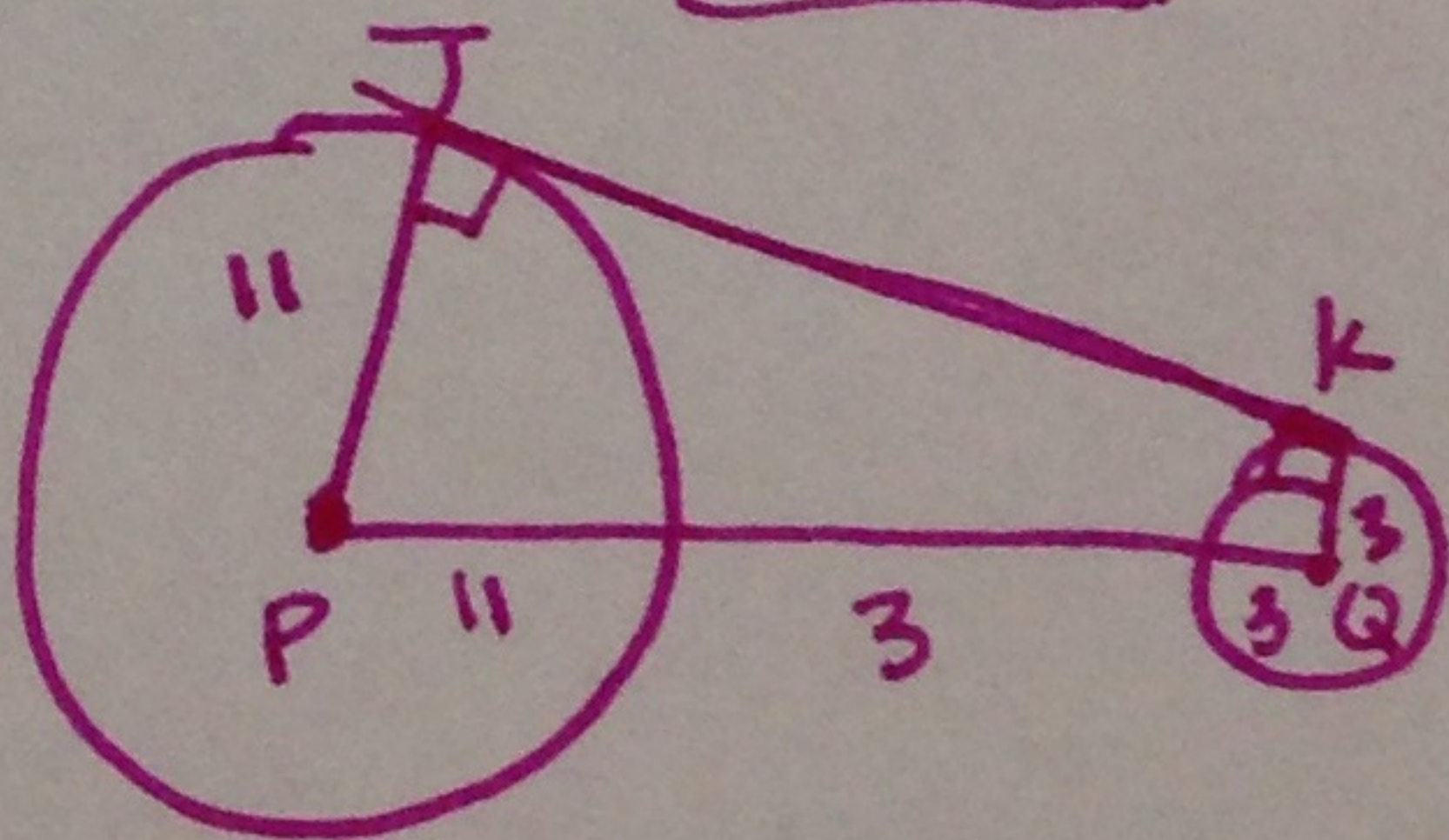
$$ST = \frac{10}{30} = \frac{8}{8+x}$$

$$80 + 10x = 240$$

$$10x = 160$$

$$x = 16$$

17)



12-1 to 12-3 Review wksht

1)  $m\angle 1 = 85^\circ$

2)  $m\angle 1 = 360 - 280 = 80^\circ$

3)  $m\angle 1 = 150^\circ$

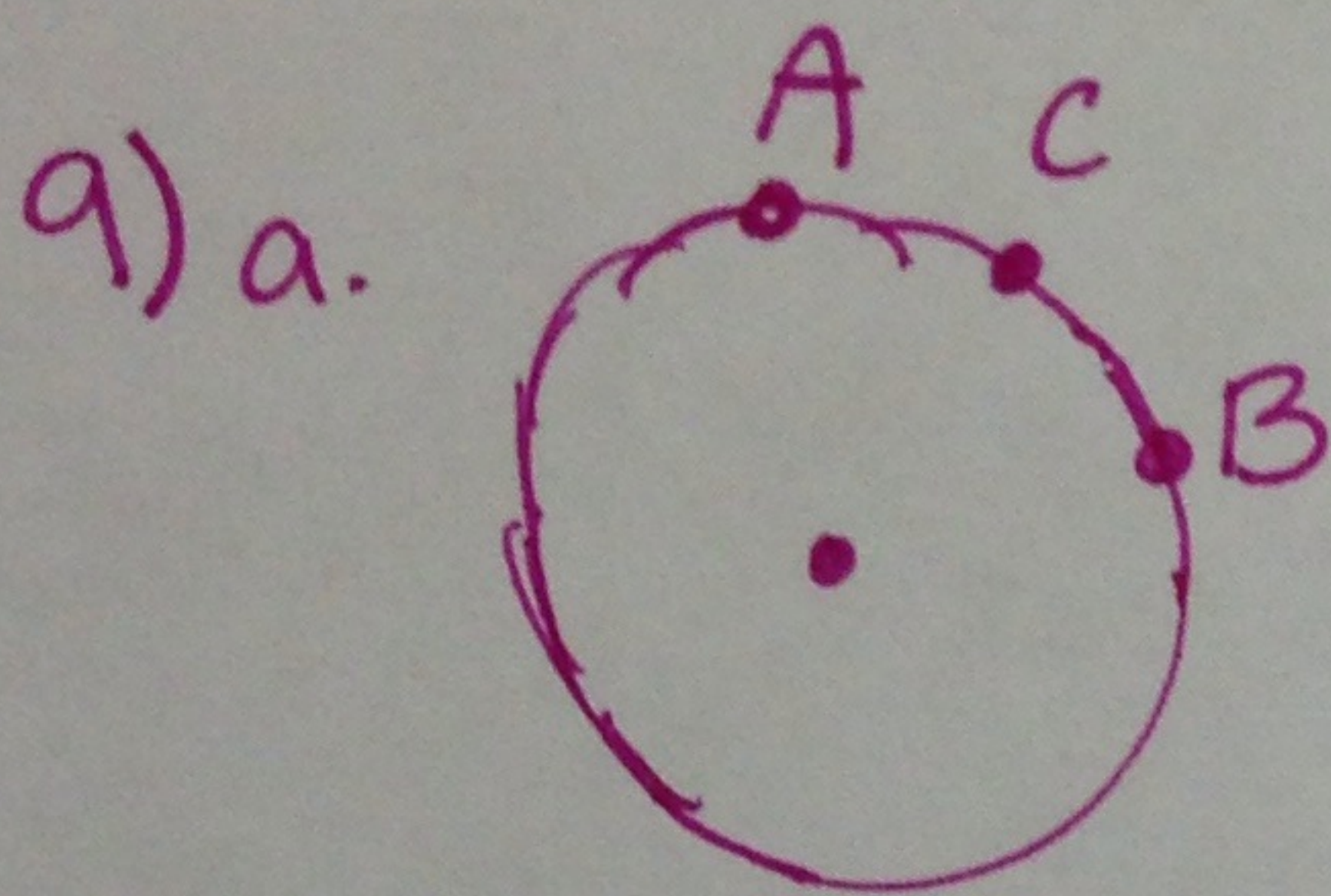
4)  $m\angle 1 = 180 - 30 = 50^\circ$

5)  $m\angle 1 = 360 - 240 - 68 = 52^\circ$

6)  $m\angle 1 = 90 - 35 = 55^\circ$

7)  $\frac{360}{12} = 30^\circ$

8) 4 o'clock and 8 o'clock



10)  $\widehat{CB}$

$m\widehat{CB}$	60	70	$56^\circ$	155	$180 - x$
$m\angle 1$	$60^\circ$	$70^\circ$	56	155	$180 - x$
$m\angle 2$	$120^\circ$	$110^\circ$	124	29	x

11)

$m\widehat{CB}$	70	60	66	60	P
$m\widehat{BD}$	30	28	$34^\circ$	$44^\circ$	q
$m\angle COD$	$100^\circ$	$88^\circ$	100	104	$P + q$
$m\angle CAD$	<del>220</del> $50^\circ$	<del>220</del> $44^\circ$	<del>220</del> $50^\circ$	52	$\frac{2(P+q)}{2}$