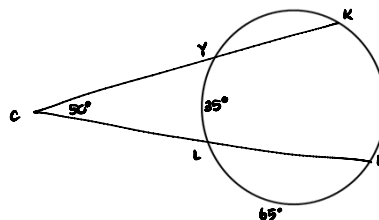
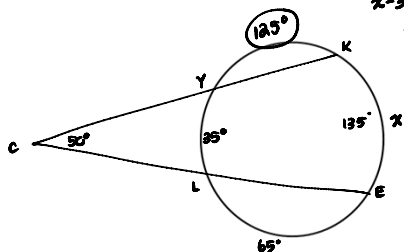


Finals Review DAY 2

Find $m\widehat{KY}$



Find $m\widehat{KY}$

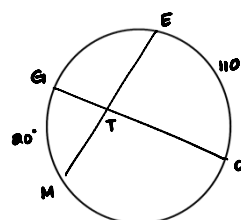


$$\frac{x - 35}{2} = 50$$

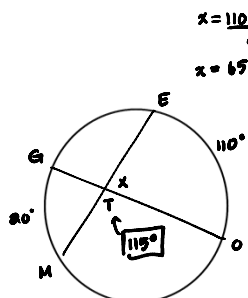
$$x - 35 = 100$$

$$x = 135$$

Find $m\angle OTM$



Find $m\angle OTM$

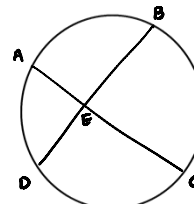


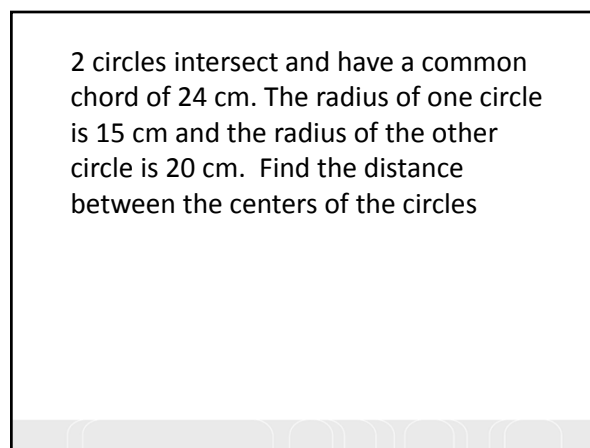
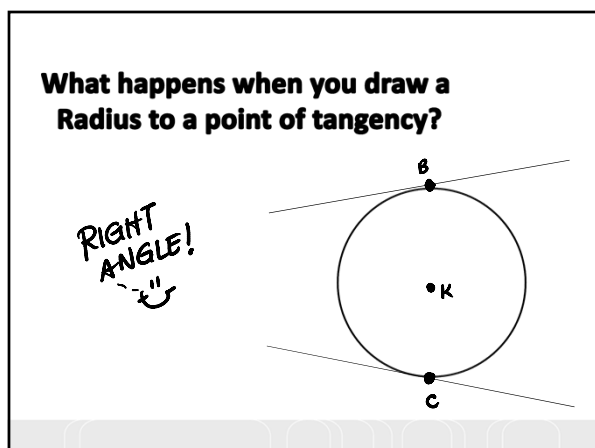
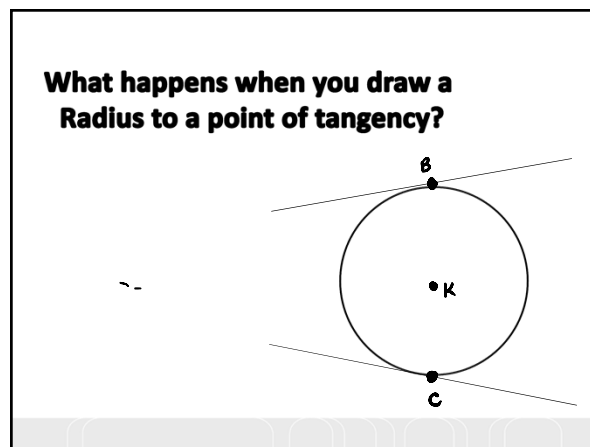
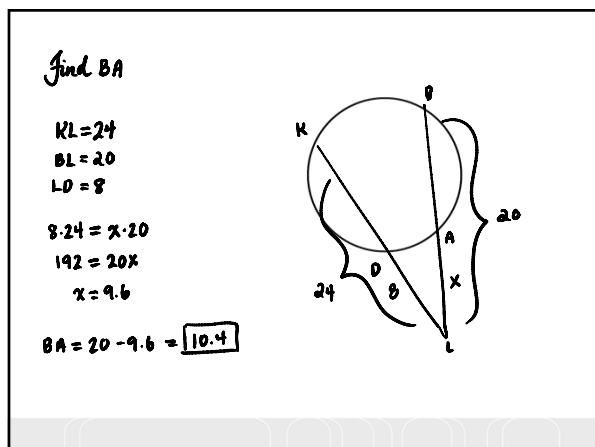
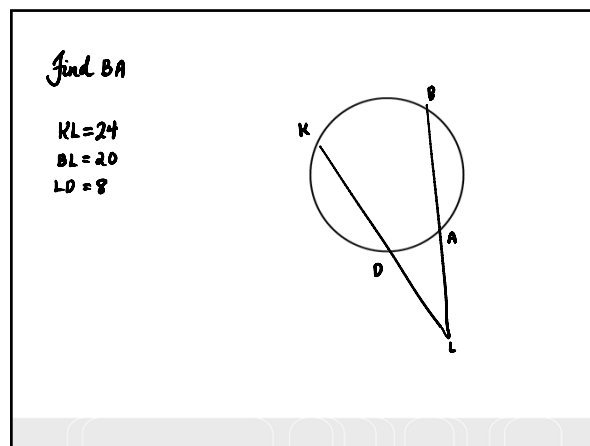
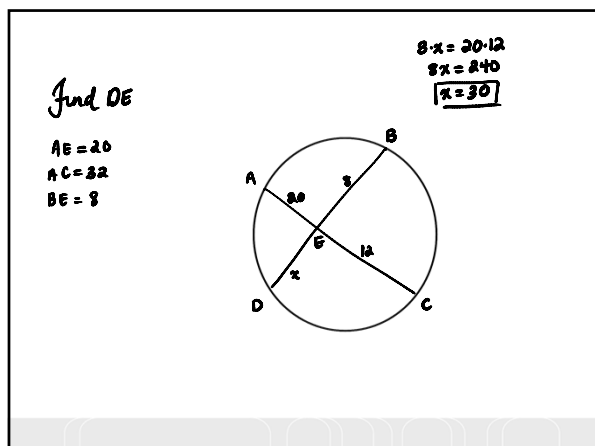
$$x = \frac{110 + 20}{2}$$

$$x = 65$$

Find \widehat{DE}

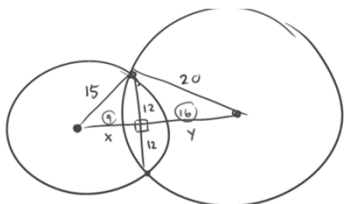
$$\begin{aligned} AE &= 20 \\ AC &= 32 \\ BE &= 8 \end{aligned}$$





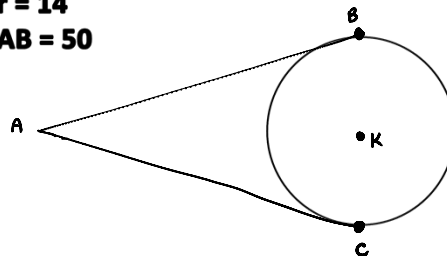
2 circles intersect and have a common chord of 24 cm. The radius of one circle is 15 cm and the radius of the other circle is 20 cm. Find the distance between the centers of the circles

25
+11



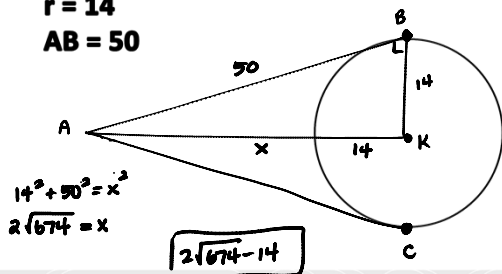
How far is A from the circle?

$r = 14$
 $AB = 50$

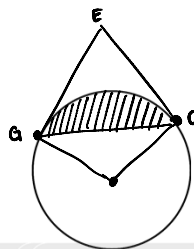


How far is A from the circle?

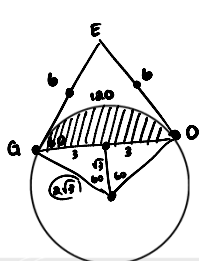
$r = 14$
 $AB = 50$



$\triangle GEO$ is equilateral
If the perimeter of the triangle is 18
find the area of the segment.



$\triangle GEO$ is equilateral
If the perimeter of the triangle is 18
find the area of the segment.



$$\frac{x\sqrt{3}}{\sqrt{3}} = \frac{3}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} \quad A_G = \pi (2\sqrt{3})^2$$

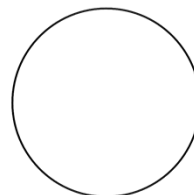
$$x = \sqrt{3} \quad = 12\pi$$

$$A_{\text{sec}} = \frac{1}{3} \cdot 12\pi = 4\pi$$

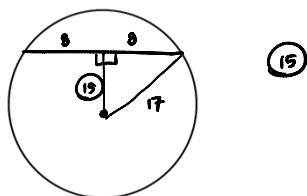
$$A_{\Delta} = \frac{b \cdot h}{2} = 3\sqrt{3}$$

$$A_{\text{seg}} = \boxed{4\pi - 3\sqrt{3}} \text{ u}^2$$

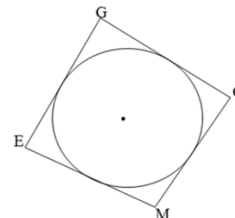
The given circle has a diameter of 34. A chord is 16 in long. How far is the chord from the center?



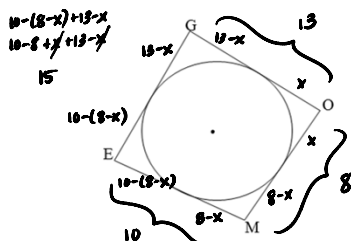
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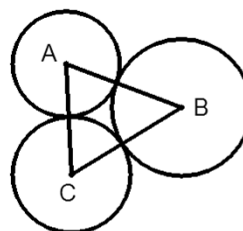
If \overline{GO} , \overline{OM} , \overline{ME} , and \overline{EG} are tangents of the circle, and $GO = 13$, $OM = 8$, and $EM = 10$, find EG .



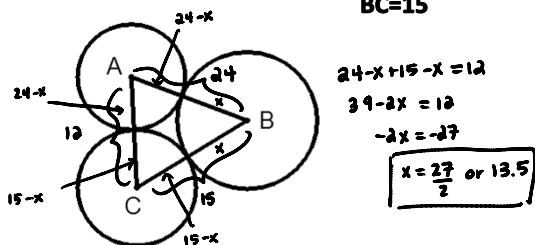
If \overline{GO} , \overline{OM} , \overline{ME} , and \overline{EG} are tangents of the circle, and $GO = 13$, $OM = 8$, and $EM = 10$, find EG .



Find the Radius of Circle B: $AB=24$
 $AC=12$
 $BC=15$

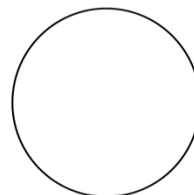


Find the Radius of Circle B: $AB=24$
 $AC=12$
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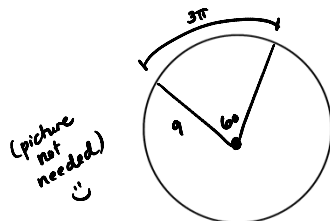


$$\begin{aligned} 24-x+15-x &= 12 \\ 39-2x &= 12 \\ -2x &= -27 \\ x &= \frac{27}{2} \text{ or } 13.5 \end{aligned}$$

If a circle has an area of 81π . Find the length of a 60° arc.



If a circle has an area of 81π .
Find the length of a 60° arc.



$$\begin{aligned} A &= \pi r^2 \\ 81\pi &= \pi r^2 \\ 81 &= r^2 \\ r &= 9 \\ C &= 18\pi \\ A.L. &= \frac{1}{6} \cdot 18\pi = 3\pi \end{aligned}$$

Find the Center and Area of
the circle given the equation:

$$x^2 + y^2 + 5x + 8y - 24 = 0$$

Find the Center and Area of
the circle given the equation:

$$\begin{aligned} x^2 + y^2 + 5x + 8y - 24 &= 0 \\ x^2 + 5x + \frac{25}{4} + y^2 + 8y + 16 &= 24 + \frac{25}{4} + 16 \\ \left(x + \frac{5}{2}\right)^2 + (y + 4)^2 &= \frac{185}{4} \\ c: \left(-\frac{5}{2}, -4\right) & \quad A = \frac{185}{4} \pi \end{aligned}$$