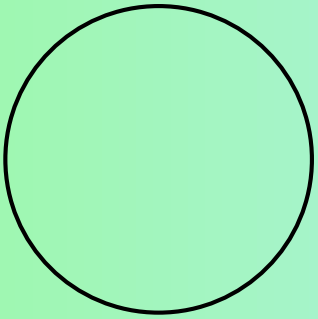
The dump truck shown has a 12 foot bed length. What is the height of the bed, when the angle made is 50°?

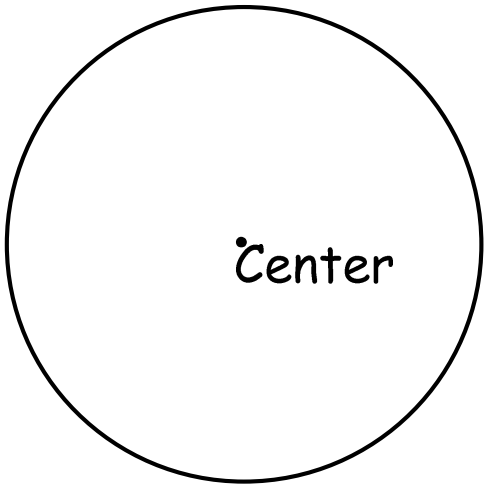
Mar 6-7:34 AM

Ch. 10 Cirlces



What are the parts of a circle?

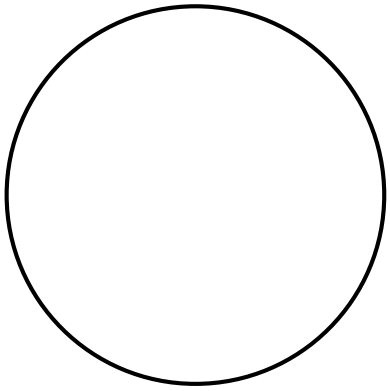
Dec 20-1:22 PM



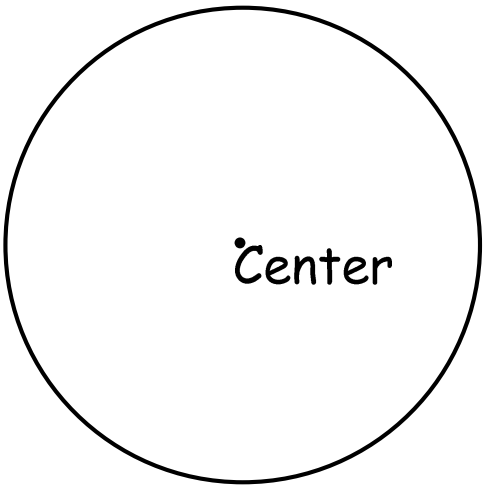
Segments

Dec 20-1:26 PM

1. Draw a diameter and give it a length.
2. Draw a chord perpendicular to the diameter, and give it a length.
3. What other measurements can you find?



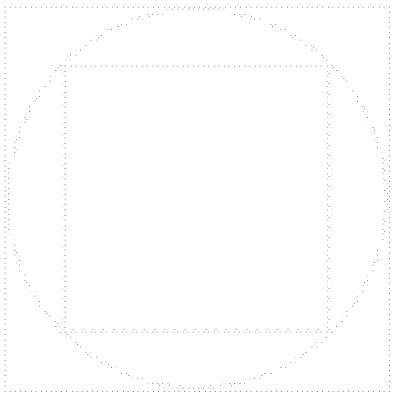
Mar 5-10:25 AM

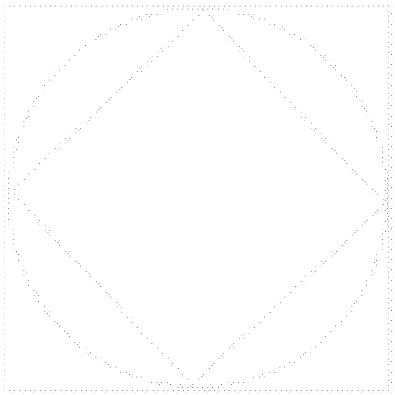


Lines

Dec 21-12:21 PM

1. Draw a circle.
2. Draw a square circumscribed about(around) the circle.
3. Draw an inscribed square, in the circle.
4. What can you identify in the diagram?



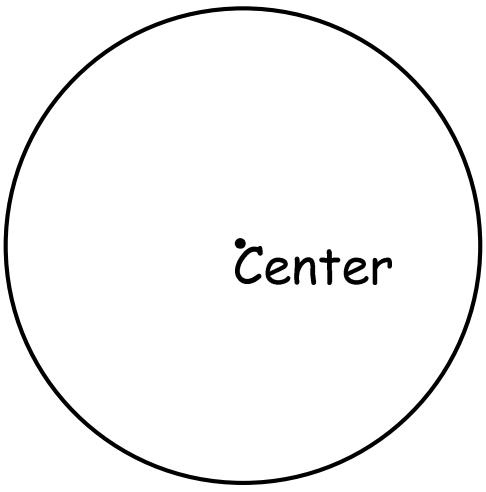


Mar 5-10:26 AM

Find the exact value of sin 60°, cos 60°, tan 60° in a right triangle with a hypotenuse of 1cm.

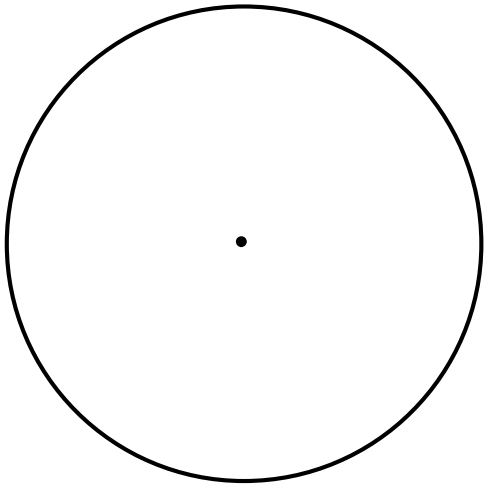
Mar 7-7:52 AM

Angles



Dec 20-1:35 PM

Arcs



Dec 20-2:29 PM

Angle/Arc Relationship

Central Angles

$m\angle ADC = m\hat{AC}$

Inscribed Angles

$m\angle ABC = \frac{1}{2} m\hat{AC}$

Arc Length

Mar 1-1:40 PM

Find x, such that RV is a diameter. Find all arc and angle measures.

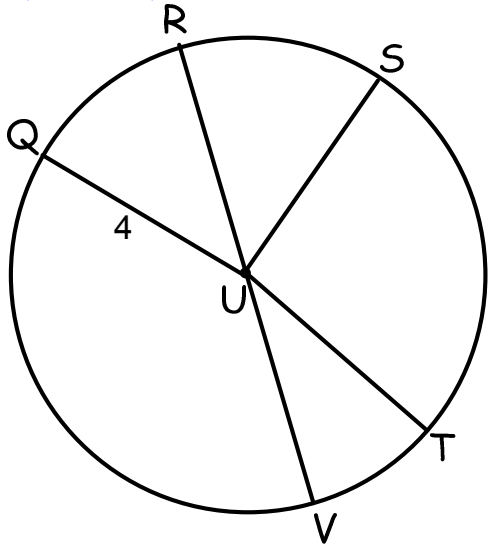
$\angle QUR = (x^2 - 9)°$

$\angle RUS = (x^2 + 3)°$

$\angle SUT = (13x - 3)°$

$\angle TUV = (5x + 5)°$

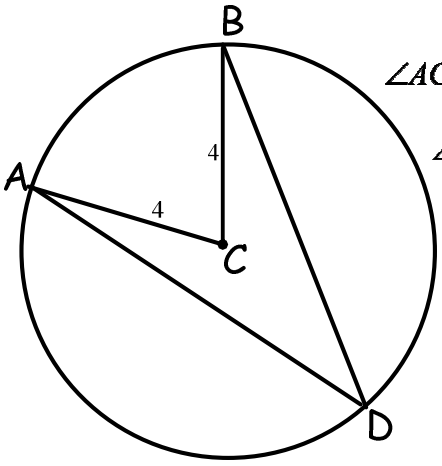
$\angle VUQ = 20x°$



Find the length of $\overset{\frown}{VQ}$.

Dec 20-2:29 PM

Find the length of $\overset{\frown}{AB}$.

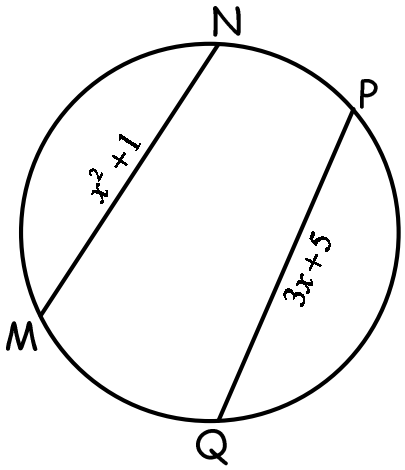


$\angle ACB = (x^2 - 5x - 4)°$

$\angle ADB = (2x + 3)°$

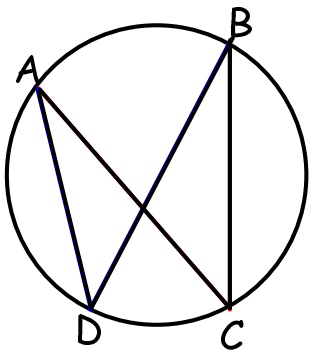
Mar 7-11:03 AM

Find x, such that the chords are congruent.



Mar 5-10:25 AM

Angle/Arc Relationship



Mar 1-1:57 PM

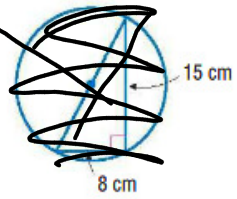
HW Quiz 10-1 to 10-3

10-1: 29
10-2: 15
10-3: 19

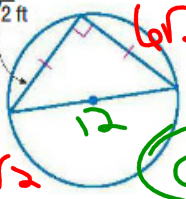
Mar 12-7:48 AM

Find the exact circumference of each circle by using the given inscribed or circumscribed polygon.

28.



29 $6\sqrt{2}$ ft



$6\sqrt{2}$

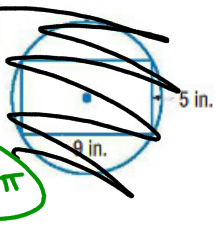
$9 = 6\sqrt{2}$

$9 = 6\sqrt{2}\sqrt{2}$

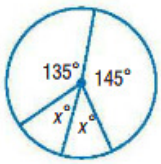
$9\sqrt{2} = 12$

$C = 12\pi$

30.



15.



$X = 40°$

$135° + 145° + 2x = 360°$

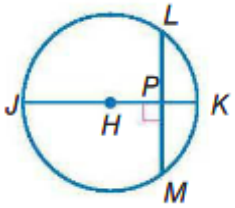
$280 + 2x = 360$

$2x = 80$

In $\odot H$, the diameter is 18, $LM = 12$, and $\overset{\frown}{mLM} = 84$. Find each measure. Round to the nearest hundredth, if necessary.

18. $m\overset{\frown}{LK}$

19. HP

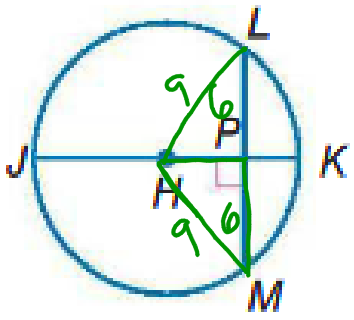


Mar 5-8:38 AM

In $\odot H$, the diameter is 18, $LM = 12$, and $m\widehat{LM} = 84$. Find each measure. Round to the nearest hundredth, if necessary.

18. $m\widehat{LK}$

19. HP



$x^2 + 6^2 = 9^2$

$x^2 + 36 = 81$

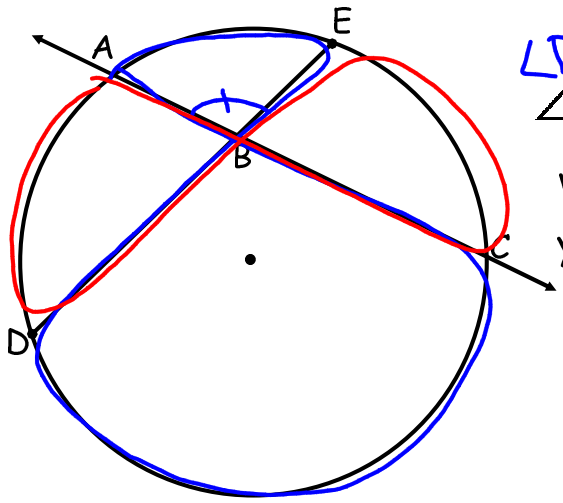
$\sqrt{x^2} = \sqrt{45}$

$x = 3\sqrt{5}$

≈ 6.71

Mar 5-9:29 AM

2 Chords/Secants



LDBL

$$\angle ABE = \frac{1}{2}(\overset{\frown}{AE} + \overset{\frown}{CD})$$

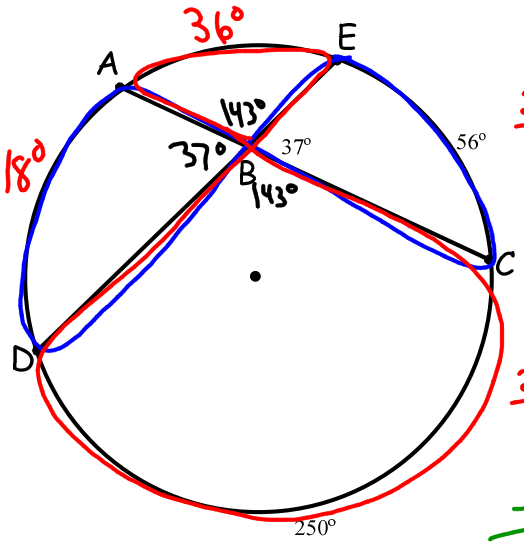
What other conjectures can you make?

$\angle EBC = \frac{1}{2}(\overset{\frown}{EC} + \overset{\frown}{AD})$

$\angle ABD$

Jan 10-1:56 PM

Find all arcs and angles



$2(37°) = \frac{2}{2}(\overset{\frown}{AD} + 56°)$

$74° = \overset{\frown}{AD} + 56°$

$-56° \quad -56°$

$18° = \overset{\frown}{AD}$

$2(143°) = \frac{2}{2}(\overset{\frown}{AE} + 250°)$

$286° = \overset{\frown}{AE} + 250°$

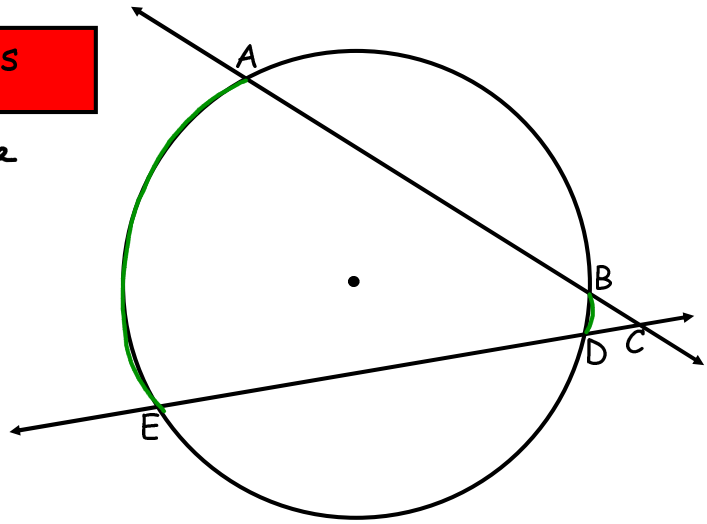
$-250° \quad -250°$

$36° = \overset{\frown}{AE}$

Jan 10-1:56 PM

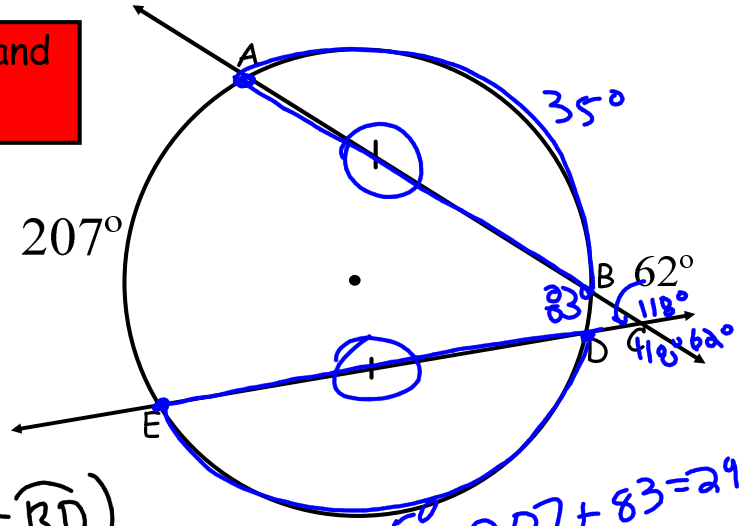
2 Secants

∠ is Outside



Jan 10-2:23 PM

Find all arcs and angles



$\frac{1}{2}(62° = \frac{1}{2}(207° - \overset{\frown}{BD})$

$124° = 207° - \overset{\frown}{BD}$

$-207° \quad -207°$

$+83° = +\overset{\frown}{BD}$

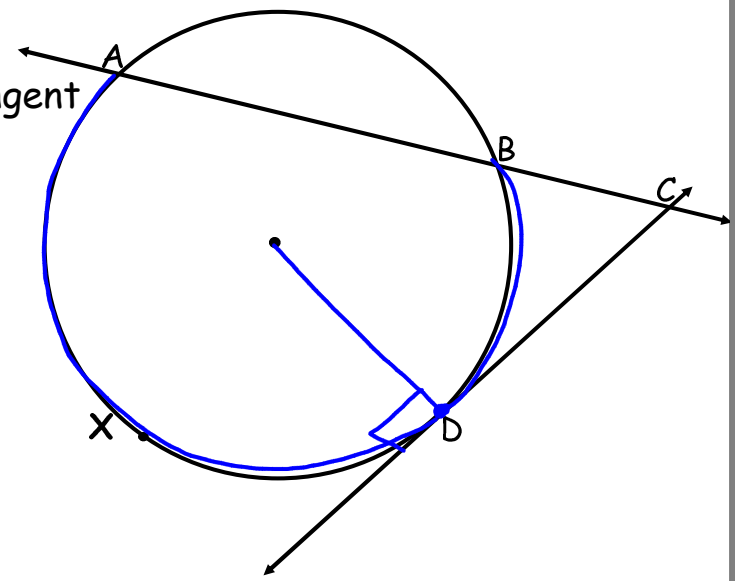
35° 207 + 83 = 290°

70° left

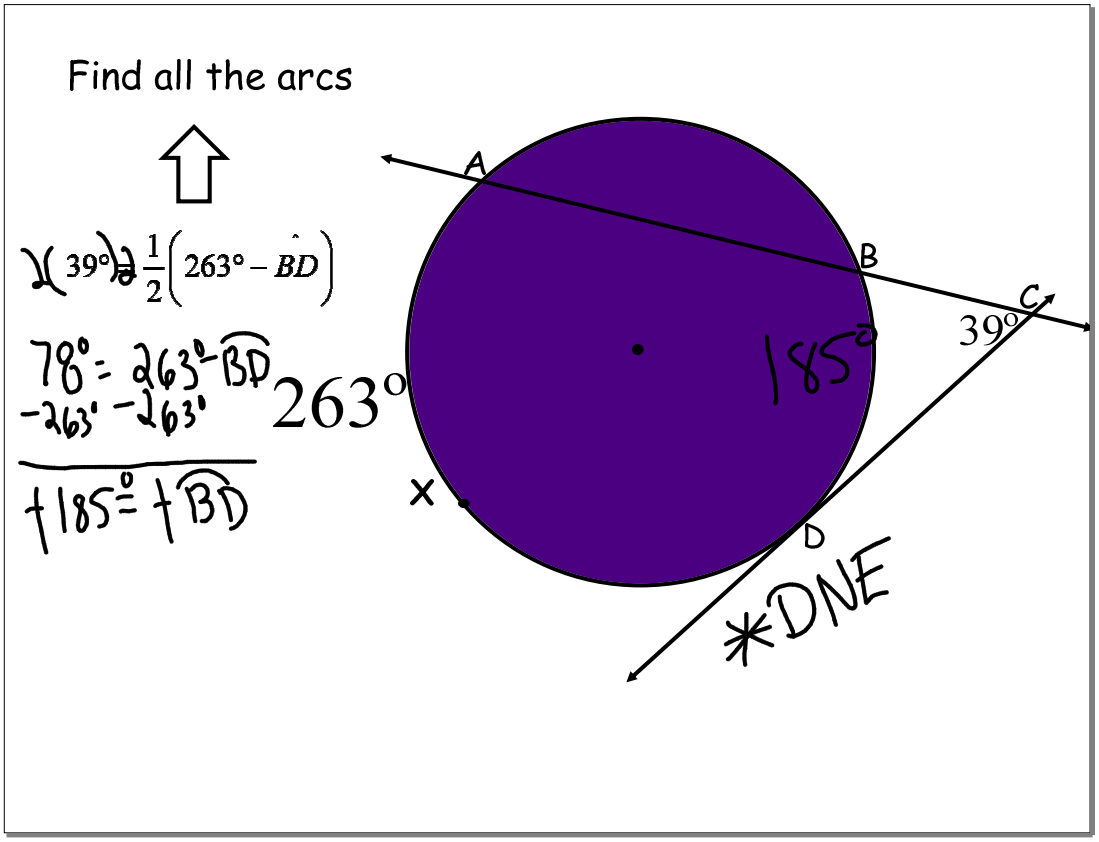
Jan 10-2:23 PM

A Secant and a Tangent

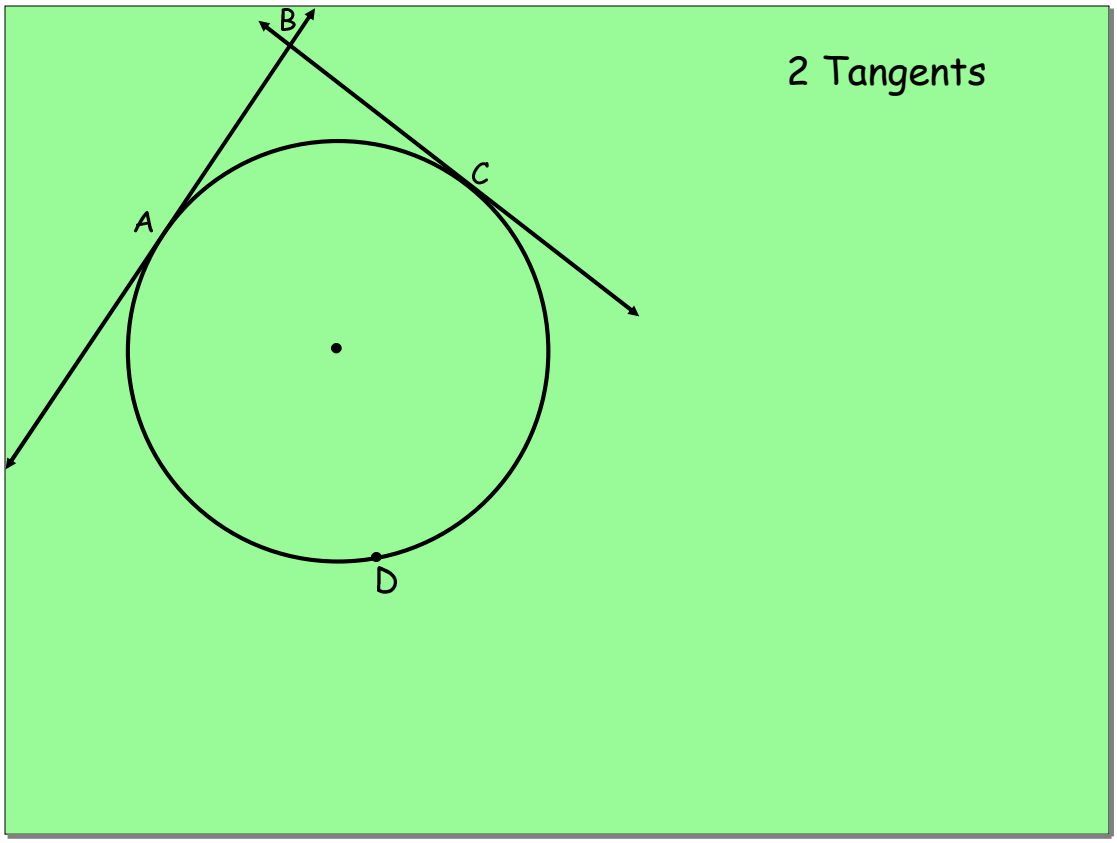
$\angle ACD = \frac{1}{2}(\overset{\frown}{AXD} - \overset{\frown}{DB})$



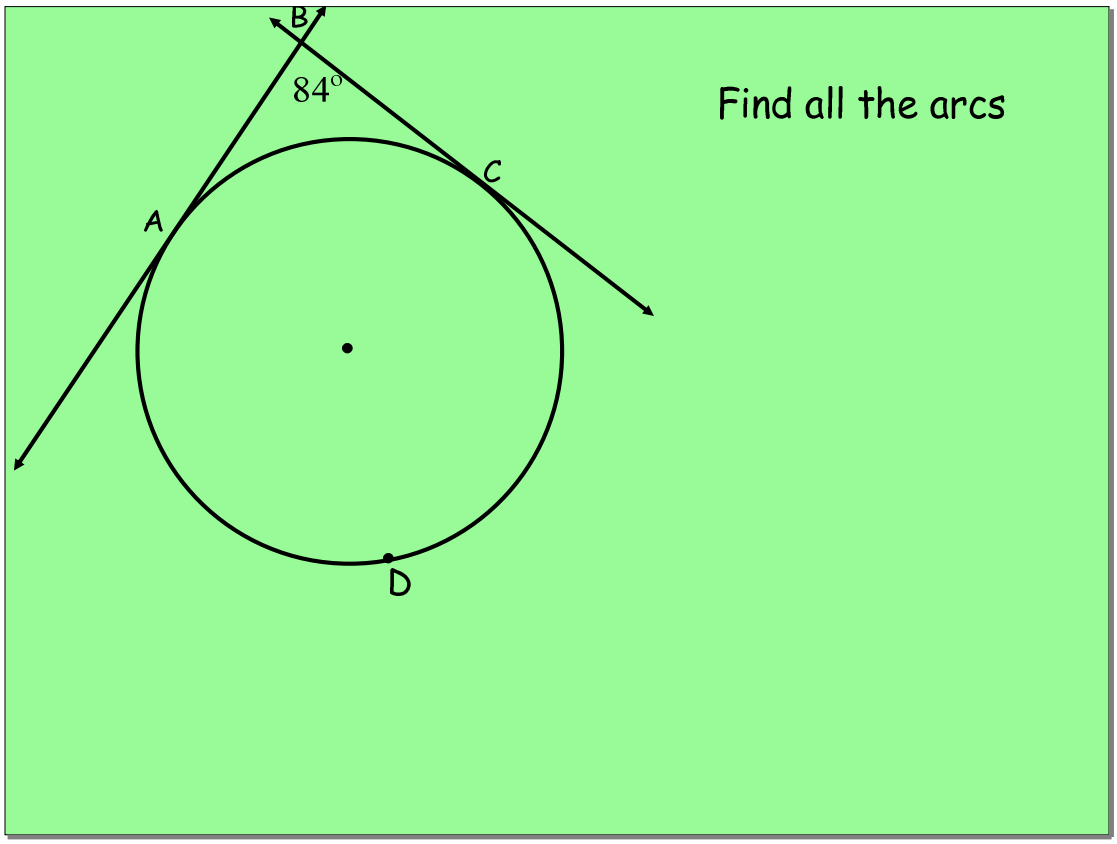
Jan 12-8:20 AM



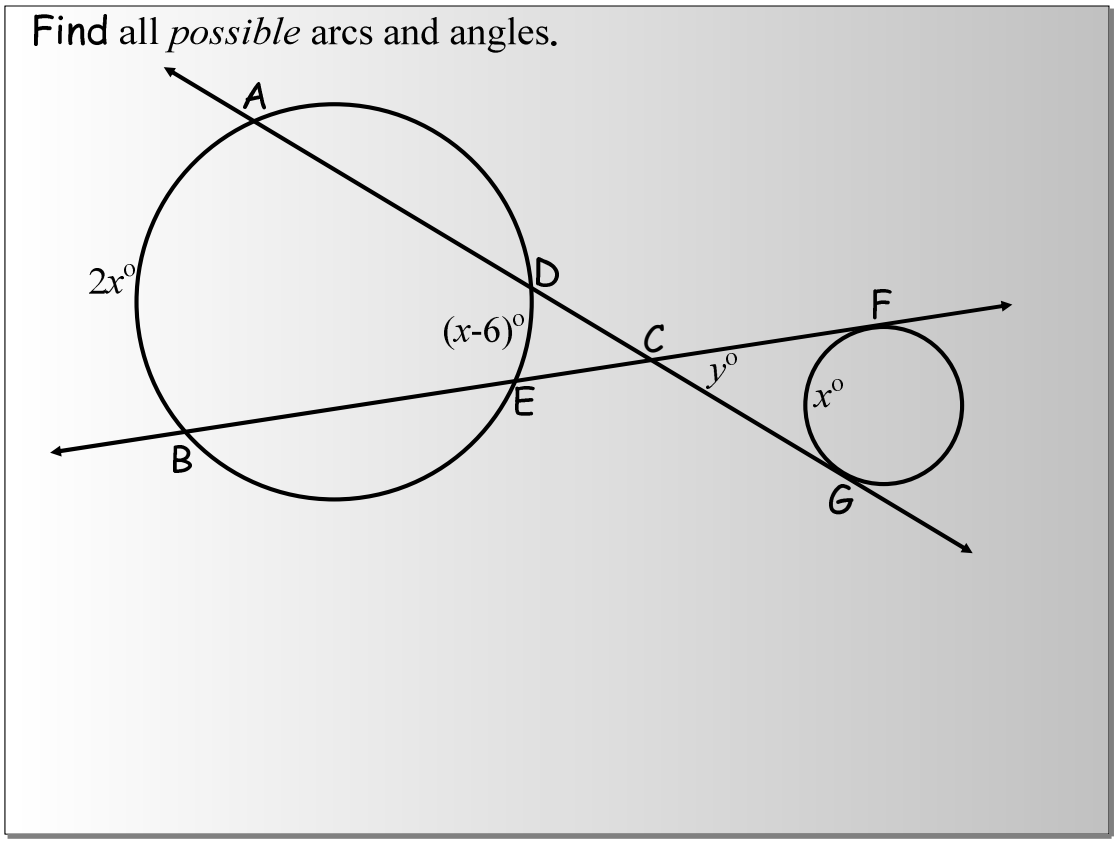
Jan 12-8:20 AM



Jan 10-2:15 PM

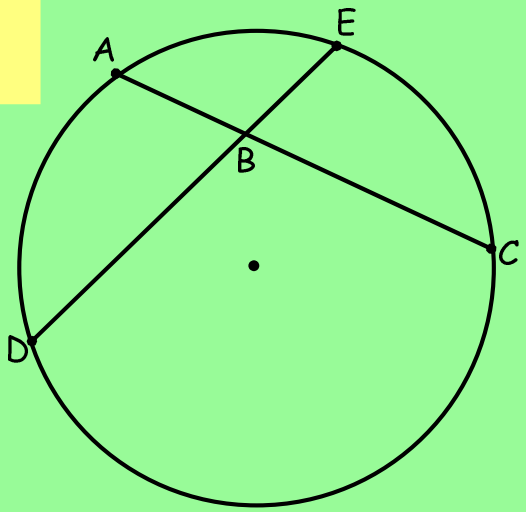


Jan 10-2:15 PM



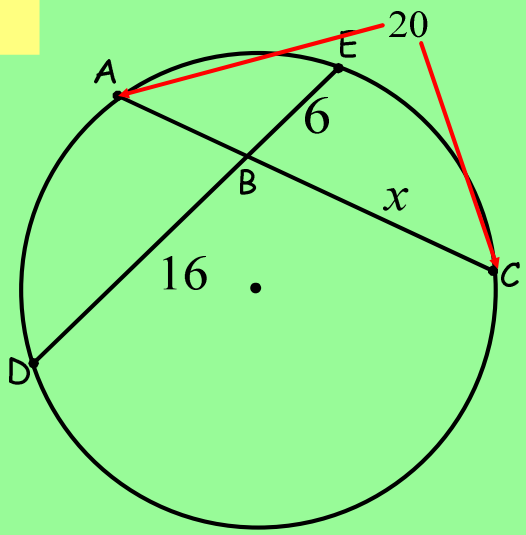
Jan 12-8:25 AM

2 Chords

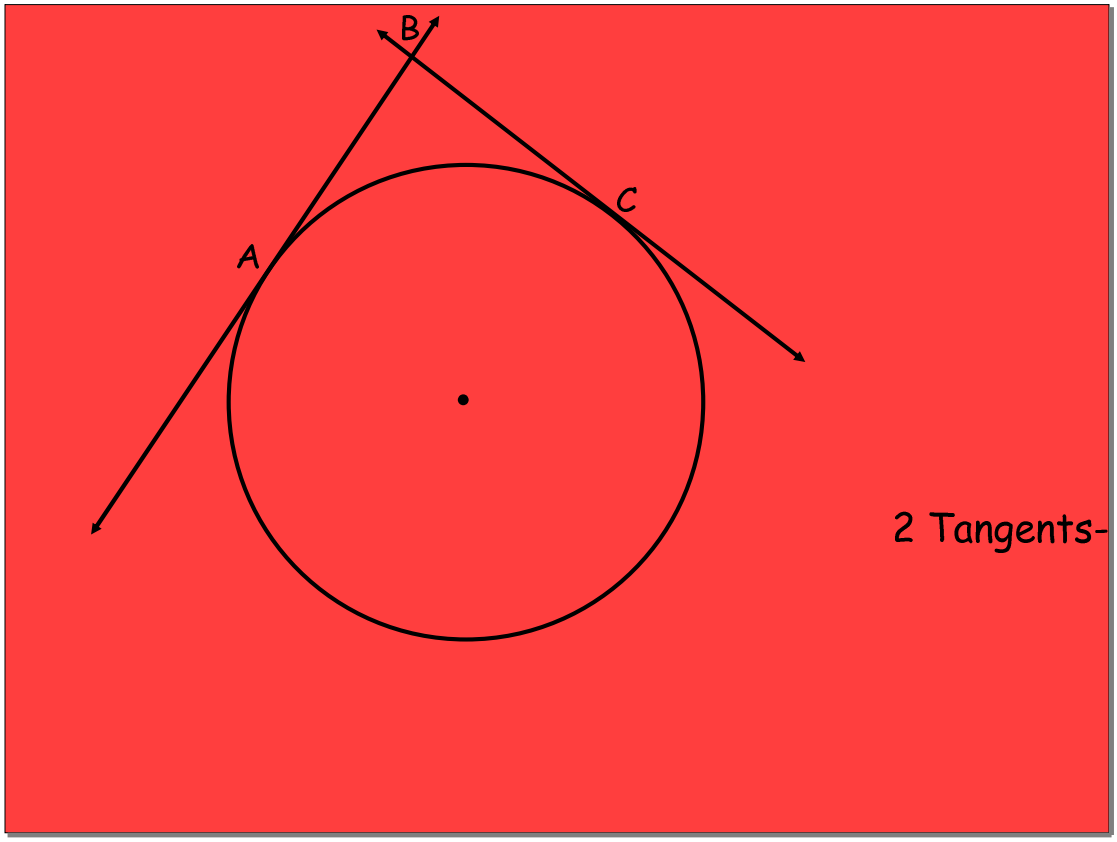


Dec 21-12:38 PM

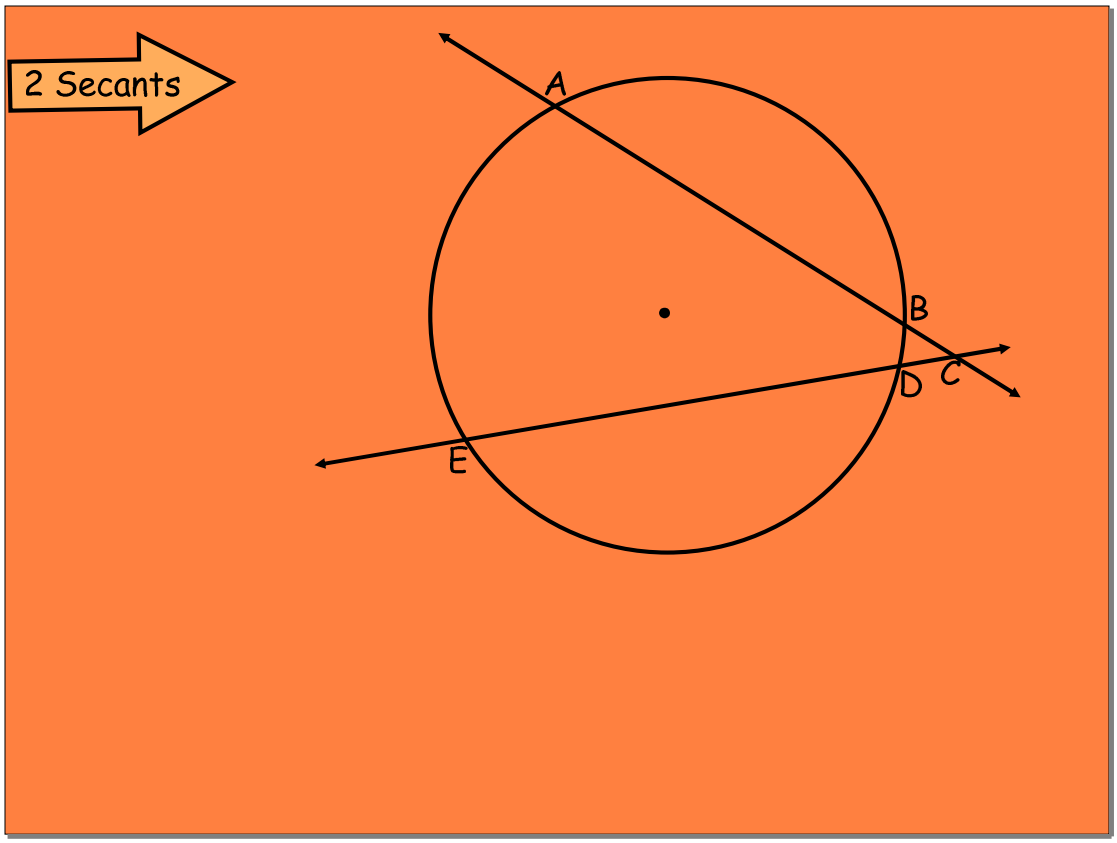
Find AB



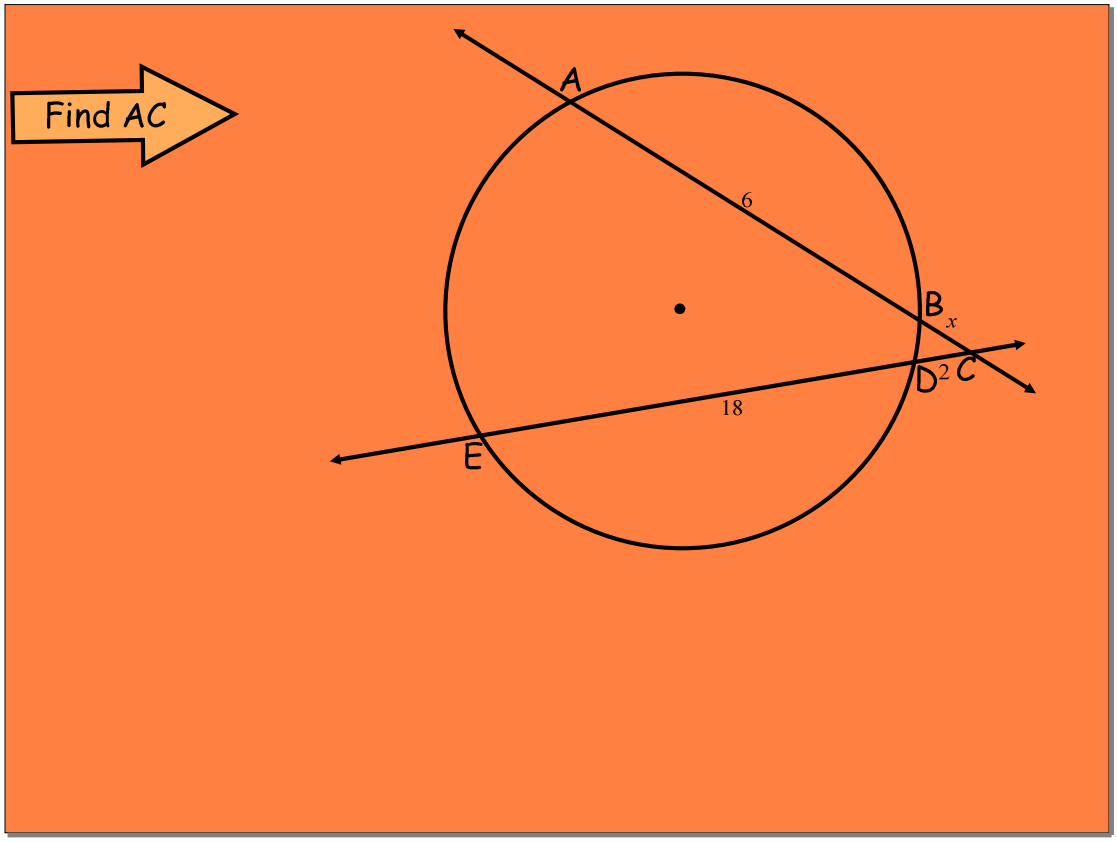
Dec 21-12:38 PM



Jan 10-12:57 PM



Jan 10-12:58 PM



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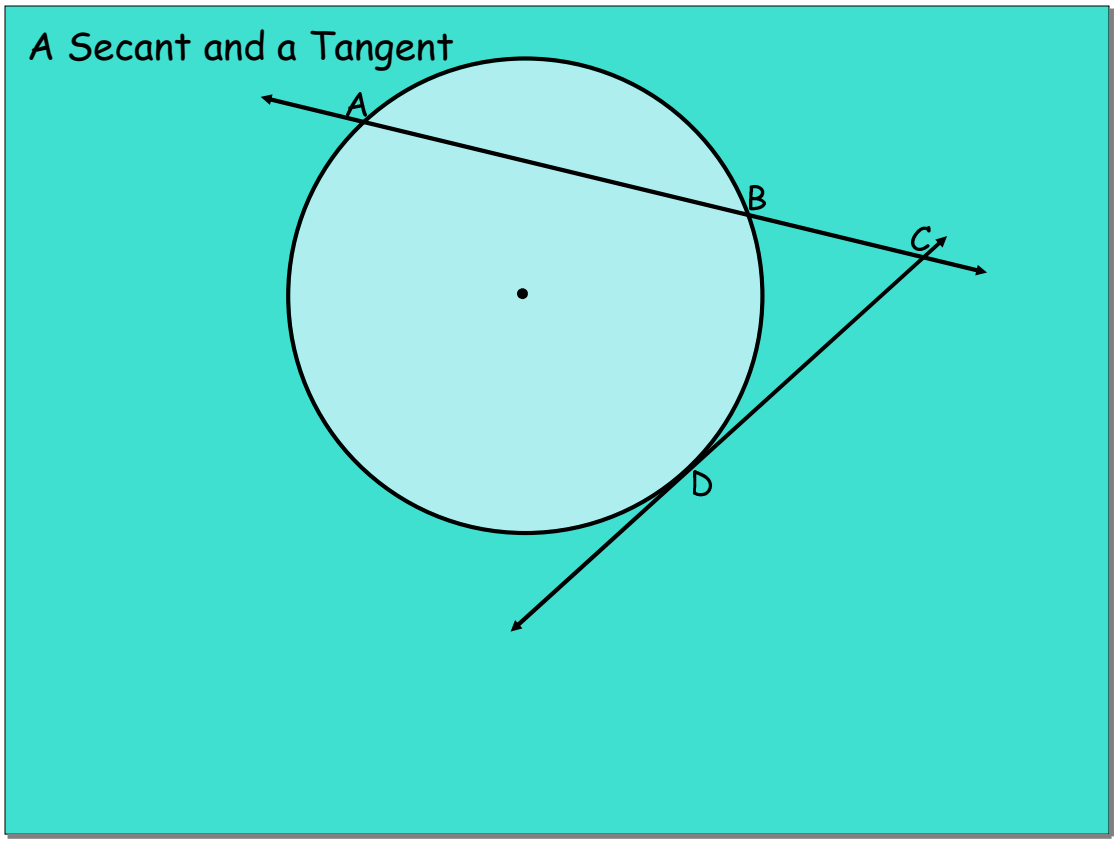
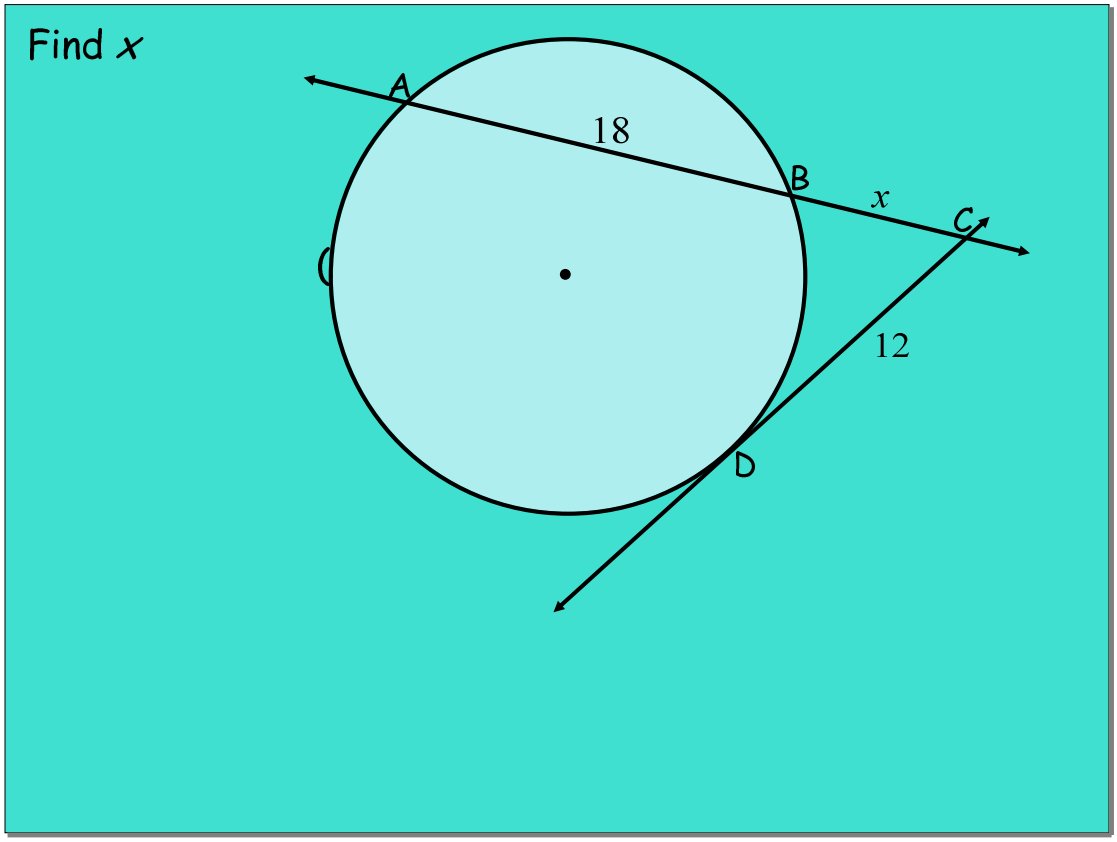


Jan 10-12:58 PM

Find x



Jan 10-12:58 PM