

1)  **Core Concept**

If $m\widehat{EB} = 64^\circ$ then

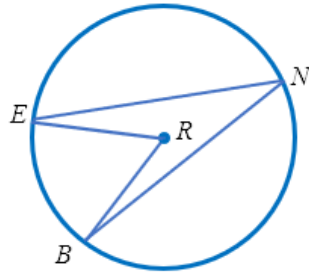
a) $m\angle R = \underline{\hspace{2cm}}$

b) $m\angle N = \underline{\hspace{2cm}}$

If $m\angle N = 25^\circ$ then

c) $m\widehat{EB} = \underline{\hspace{2cm}}$

d) $m\angle R = \underline{\hspace{2cm}}$



2) Fill in the blanks with the choices below. Use the diagram from problem 1.

half equal inscribed central intercepted

a) $\angle R$ is the _____ angle.

b) $\angle N$ is an _____ angle.

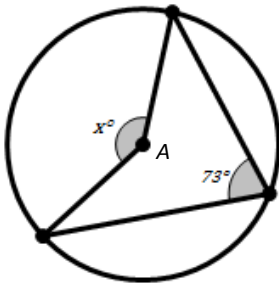
c) \widehat{EB} is the _____ arc.

d) The measure of the central angle and the measure of its intercepted arc are _____.

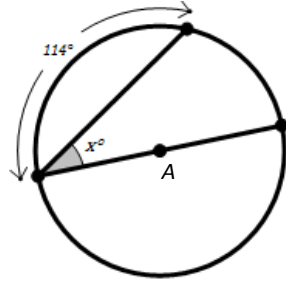
e) The measure of the inscribed angle is equal to _____ the measure of the intercepted arc.

Find the value of x . Point A is the center of the circle.

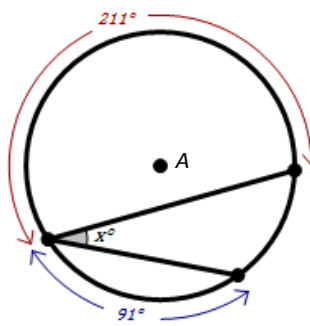
3) $x = \underline{\hspace{2cm}}$



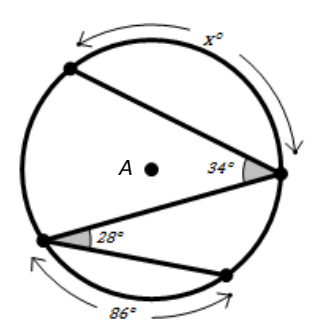
4) $x = \underline{\hspace{2cm}}$



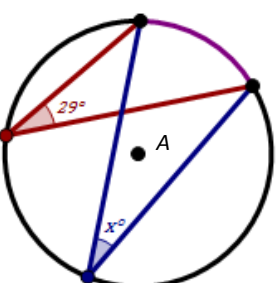
5) $x = \underline{\hspace{2cm}}$



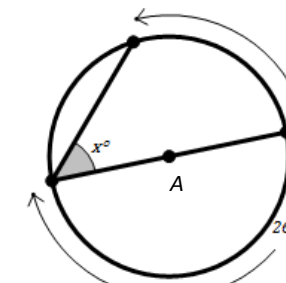
6) $x = \underline{\hspace{2cm}}$



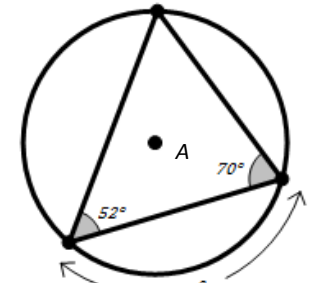
7) $x = \underline{\hspace{2cm}}$



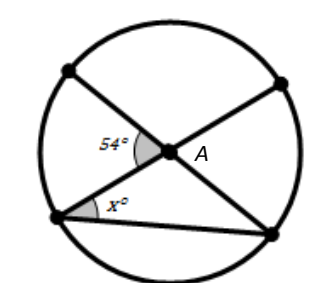
8) $x = \underline{\hspace{2cm}}$



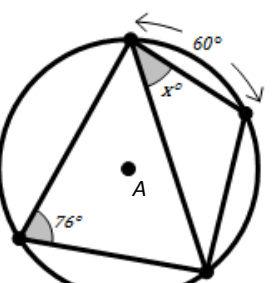
9) $x = \underline{\hspace{2cm}}$



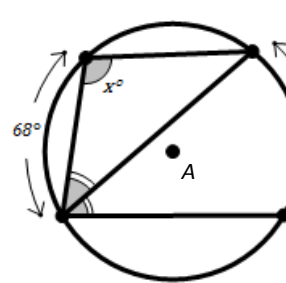
10) $x = \underline{\hspace{2cm}}$



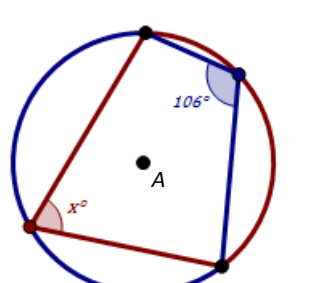
11) $x = \underline{\hspace{2cm}}$



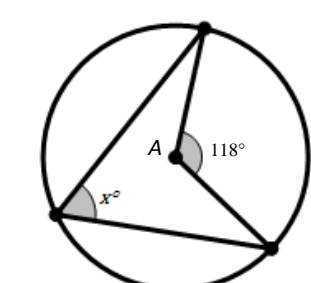
12) $x = \underline{\hspace{2cm}}$



13) $x = \underline{\hspace{2cm}}$

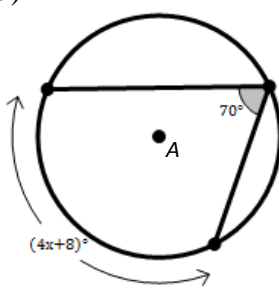
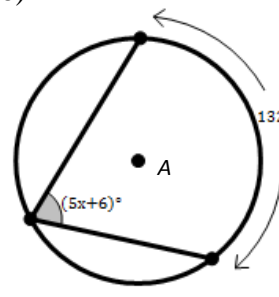
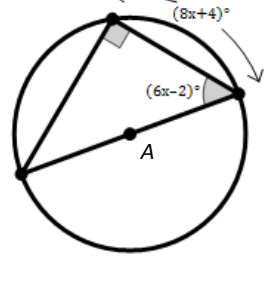
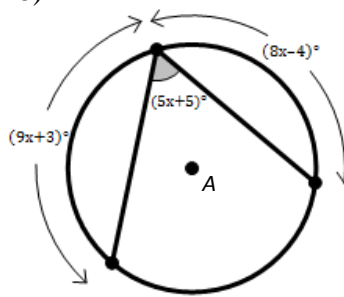


14) $x = \underline{\hspace{2cm}}$

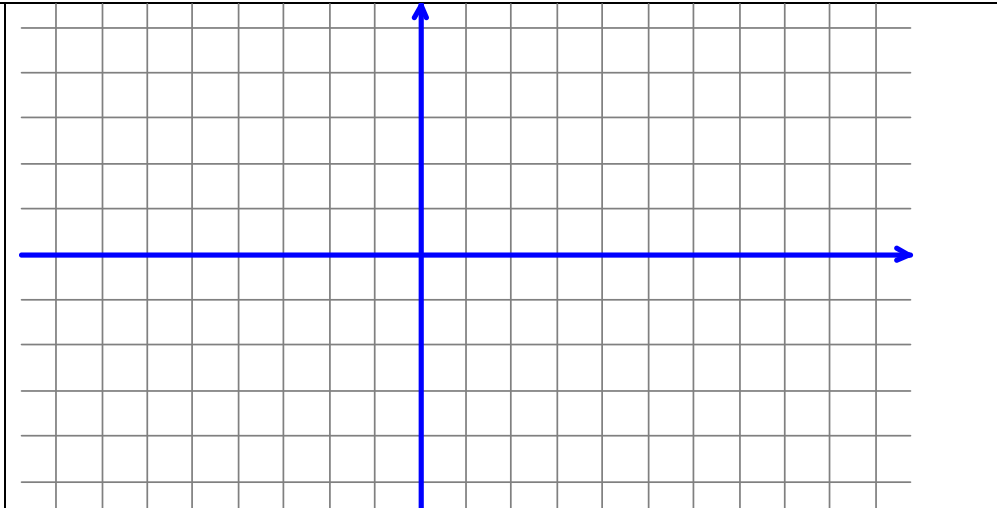


HW #5:

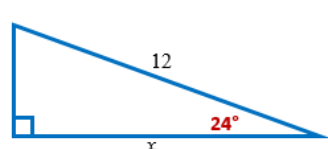
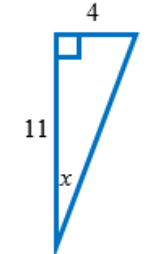
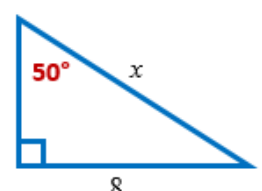
Write and solve an equation to find the value of x . Clearly show the equation used to find x .

<p>15)</p> 	<p>16)</p> 	<p>17)</p> 	<p>18)</p> 
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19) Graph each equation. They are circles and lines. Recall: $(x-h)^2 + (y-k)^2 = r^2$ center: (h,k) radius: r

<p>a) $x^2 + y^2 = 16$ b) $(x-3)^2 + y^2 = 1$ c) $(x+3)^2 + (y+2)^2 = 9$ d) $x^2 + (y-2)^2 = 4$ e) $(x-6)^2 + (y-1)^2 = 4$ f) $(x-6)^2 + (y+2)^2 = 1$ g) $y = \frac{-2}{3}x + 2$ h) $y = \frac{1}{3}x - 1$</p>	
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Review: For 20-22, show the trig equation used to find answer. Round to the nearest hundredth.

<p>20) Find the value of x.</p> 	<p>21) Find the value of x.</p> 	<p>22) Find the value of x.</p> 
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<p>23) Rewrite each in factored form. Use scratch paper if necessary.</p> <p>a) $x^2 + 6x + 9 = (\quad)(\quad) = (\quad)^2$ b) $x^2 - 10x + 25 = (\quad)(\quad) = (\quad)^2$ c) $x^2 - 2x + 1 = (\quad)(\quad) = (\quad)^2$ d) $x^2 - 16 = (\quad)(\quad)$</p>	<p>24) Fill in the blanks to make each statement true.</p> <p>a) $x^2 + 16x + \underline{\hspace{2cm}} = (x + \underline{\hspace{1cm}})^2$ b) $x^2 + \underline{\hspace{1cm}}x + \underline{\hspace{1cm}} = (x + 4)^2$ c) $x^2 - 14x + \underline{\hspace{2cm}} = (x - \underline{\hspace{1cm}})^2$ d) $x^2 + 20x + \underline{\hspace{2cm}} = (x + \underline{\hspace{1cm}})^2$</p>
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Answers: 15-18 and 20-22: 9, 10.44, 10.96, 12, 13, 19.98, 33