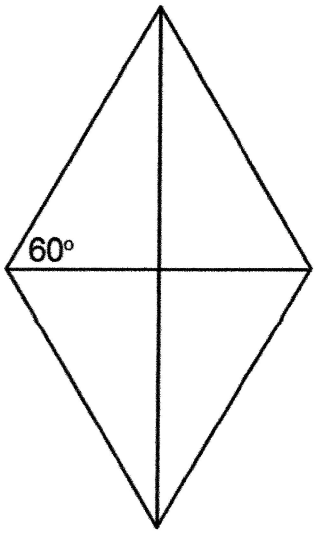
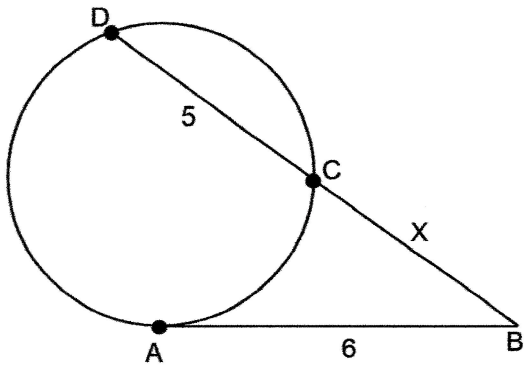
Bellwork Geo Monday, May 11, 2020

1. Find the EXACT area of this Rhomus. Perimeter of the Rhombus is 40.

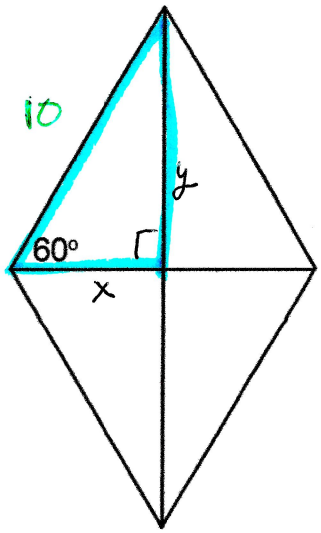


2. $\overline{AB}$ is tangent to the circle. Find the value of x.



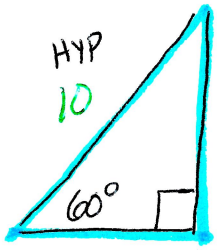
Bellwork Geo Monday, May 11, 2020 ANSWERS

1. Find the EXACT area of this Rhomus. Perimeter of the Rhombus is 40.



perimeter = 40

each side = 10



$y = LL = 5\cdot\sqrt{3}$

$y = 5\sqrt{3}$

$x = SL = \frac{10}{2}$

$x = 5$

$A = \frac{1}{2} d_1 \cdot d_2$

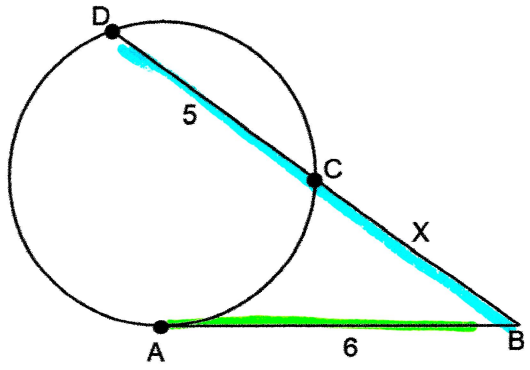
$= \frac{1}{2}(2x)(2y)$

$= \frac{1}{2}(2\cdot 5)(2\cdot 5\sqrt{3})$

$= \frac{1}{2}(10)(10\sqrt{3})$

$A = 50\sqrt{3}$

2. $\overline{AB}$ is tangent to the circle. Find the value of x.



$(x+5)x = 6^2$

$x^2 + 5x = 36$

$x^2 + 5x - 36 = 0$

$(x+9)(x-4) = 0$

$x = -9, 4$

x = can't be neg

-36
x+9
-4
+5

$x = 4$