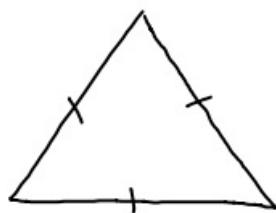


3-19-18 5th Geo



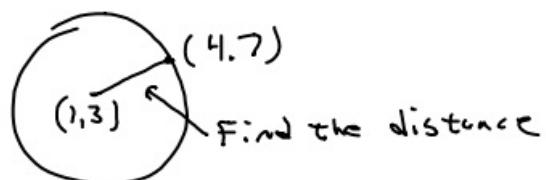
How many degrees must I rotate it until it lands on itself?
120°

$$\text{Ex: } (x-4)^2 + (y+3)^2 = 25$$

center: $(4, -3)$

radius: 5

- ① The equation $(x-1)^2 + (y-3)^2 = r^2$ represents circle A. The pt. $(4, 7)$ lies on circle. What is the radius?



OR

$$(x-1)^2 + (y-3)^2 = r^2$$

Plug $(4, 7)$ in

$$(4-1)^2 + (7-3)^2 = r^2$$

$$9 + 16 = r^2$$

$$25 = r^2$$

$$5 = r$$

② What point lies on the circle represented by

$$(x-1)^2 + (y-3)^2 = 7^2$$

A. (-1, 4)

B. (0, 7)

C. (1, 3)

D. (8, 3)

③ Circle O has center (-2, -2)

and diameter of 10. Which point lies on circle O.

(A) (-6, -5)

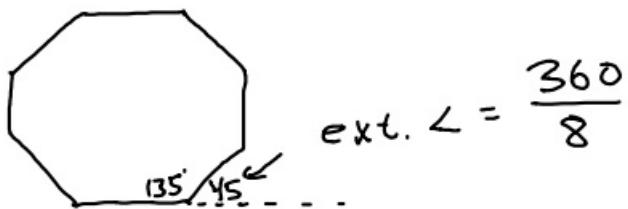
$$(x+2)^2 + (y+2)^2 = 25$$

(B) (-2, -2)

(C) (6, 4)

(D) (8, 8)

④ Does an Octagon tessellate?

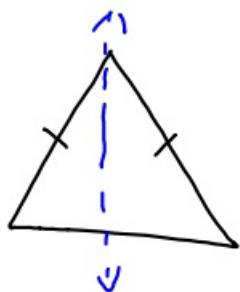


$$\text{ext. } \angle = \frac{360}{8}$$

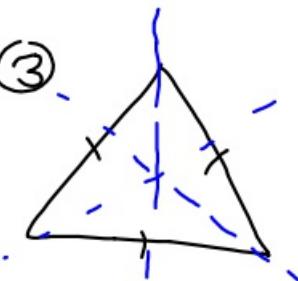
3-19-18 6th 6eo

① Tessellations

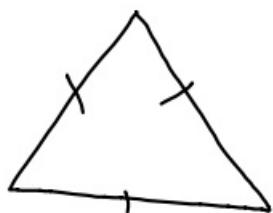
②



③

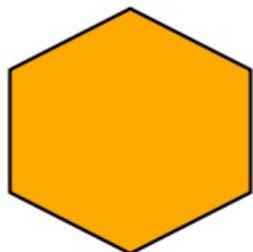


④



How many degrees must I rotate it to make it land on itself?
120°

⑤



$$\frac{360}{6} = 60^\circ \text{ turn}$$

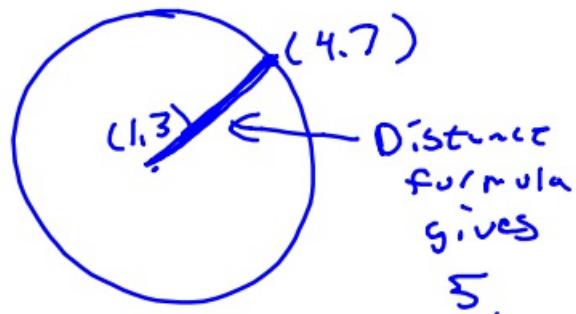
$$(x-3)^2 + (y+2)^2 = 36$$

center: $(3, -2)$

radius: 6

- ⑦ The equation $(x-1)^2 + (y-3)^2 = r^2$ represents circle A. The point $(4, 7)$ is on the circle. What is r ?

A) Center = $(1, 3)$



B) $(4-1)^2 + (7-3)^2 = r^2$

$$9 + 16 = r^2$$

$$25 = r^2$$

$$r = 5$$

⑧ What point lies on the circle represented by

$$(x-1)^2 + (y-3)^2 = 7^2 ?$$

- (A) (-1, 4)
- (B) (0, 7)
- (C) (1, 3)
- (D) (8, 3)

⑨ Circle O has a center $(-2, -2)$ and a diameter of 10. Which point lies on circle O?

- (A) $(-6, -5)$
- (B) $(-2, -2)$
- (C) $(6, 4)$
- (D) $(8, 8)$

