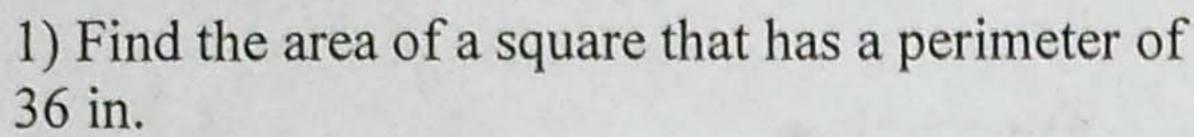
## Rey

## Geometry: Ch 9 Group Review



$$A=S^{2}$$
=  $(9)^{2}$ 
=  $81$  in

2) Find the height of a triangle that has an area of  $6x^3y$  in and a base of 4xy in.

$$A = \frac{1}{2}bh$$
  
 $6x^3y = \frac{1}{2}(4xy)(h)$   
 $6x^3y = (2xy)(h)$   
 $3x^2 = h$ 

3) Find the area of a rhombus that has 
$$d_1 = 21$$
 yd and  $d_2 = 24$  yd.

$$A = \frac{1}{2}(d_1)(d_2)$$

$$= \frac{1}{2}(21)(24)$$

$$= 252 \text{ yd}^2$$

4) Find the area of a kite that has  $d_1 = 32m$  and  $d_2 = 18m$ .

$$A = \frac{1}{2}(d_1)(d_2)$$

$$= \frac{1}{2}(32)(8)$$

$$= 288 m^2$$

5) Find the area of a circle with center J that has a circumference of  $14\pi$  yd. (leave answer in terms of

 $\pi$ )

6) Find the area of a regular pentagon with a side length of 10 ft. (draw a diagram, calculator allowed)

$$360 = 72^{\circ}$$
 $136^{\circ}$  TAN  $36 = \frac{5}{a}$ 
 $109t$ .

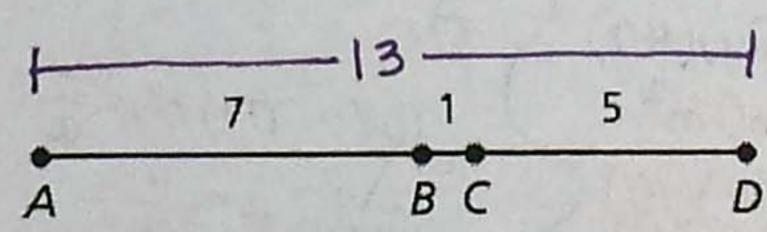
 $A = \frac{5}{109t}$ 
 $A$ 

7) Find the area of a regular octagon with an apothem length of 8 cm. (draw a diagram, calculator allowed)

$$\frac{360}{8} = 45^{\circ}$$
 $\frac{360}{8} = 45^{\circ}$ 
 $8 = \frac{1}{12}$ 
 $8 = \frac{1$ 

8) Describe the effect of each change on the perimeter and area of the given figure:

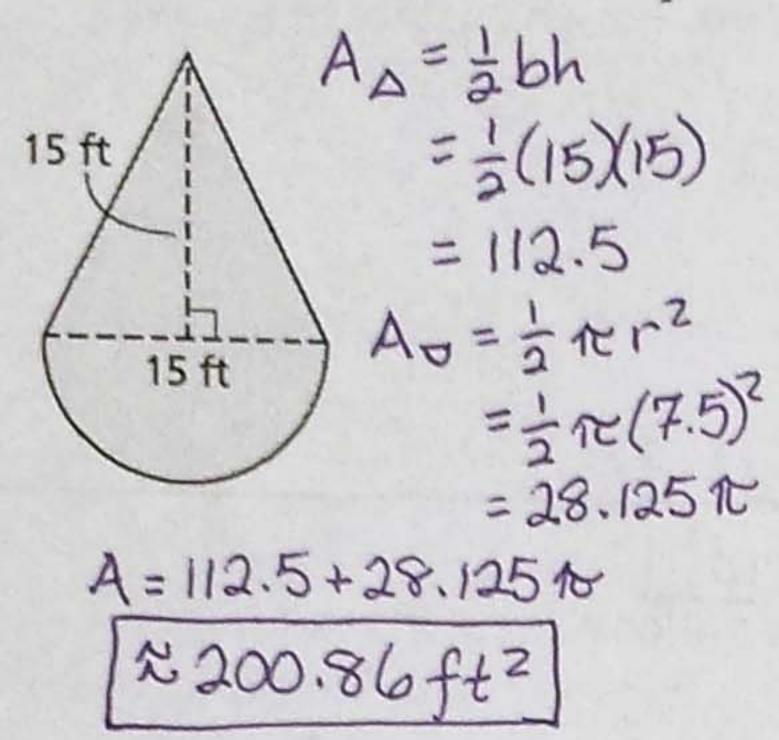
The base and height of a triangle with base of 8 ft and height of 20 ft are both multiplied by 4.



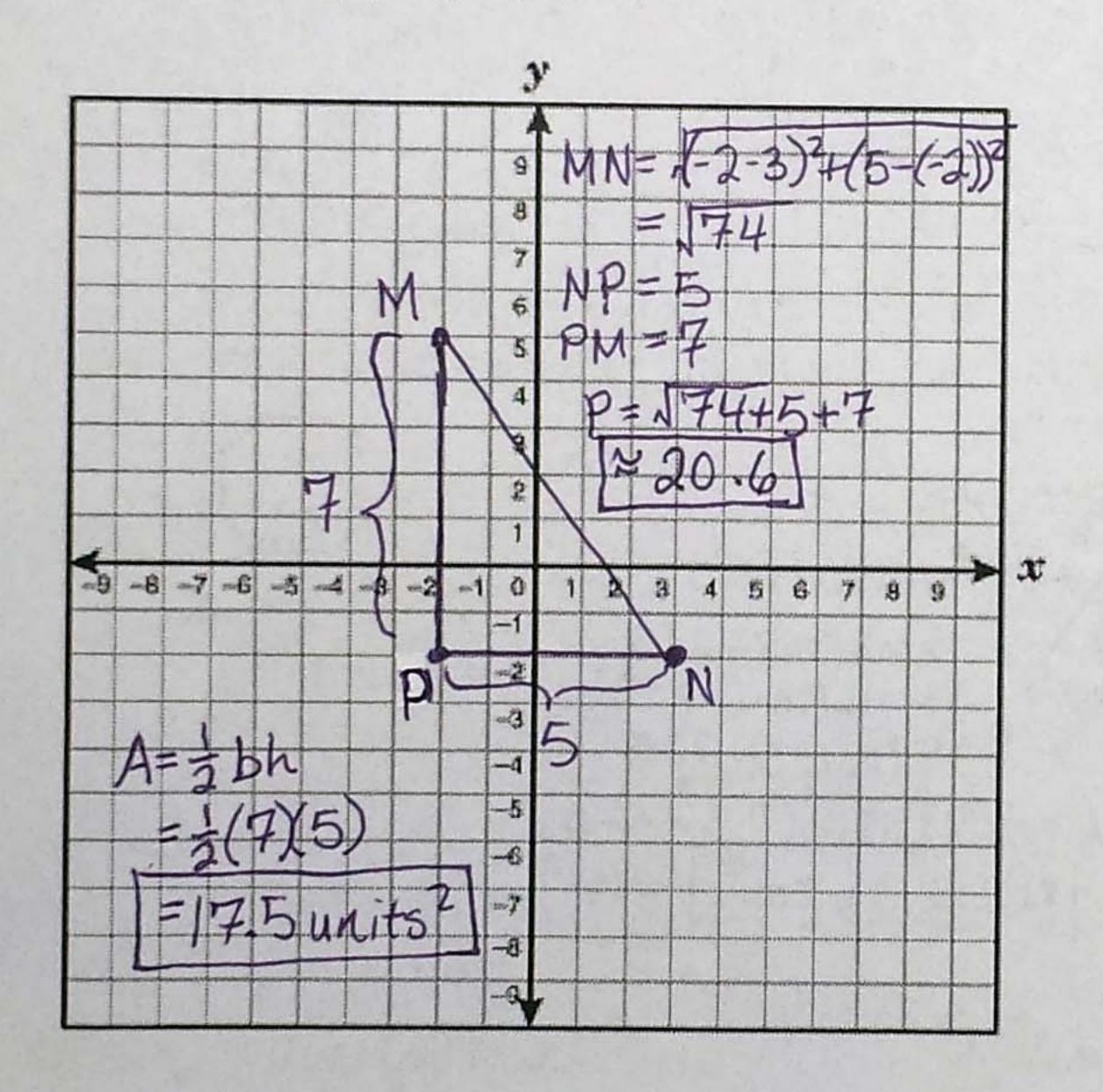
a) A point chosen at random is not on  $\overline{CD}$ 

b) A point chosen at random is on  $\overline{BC}$  or  $\overline{CD}$ .

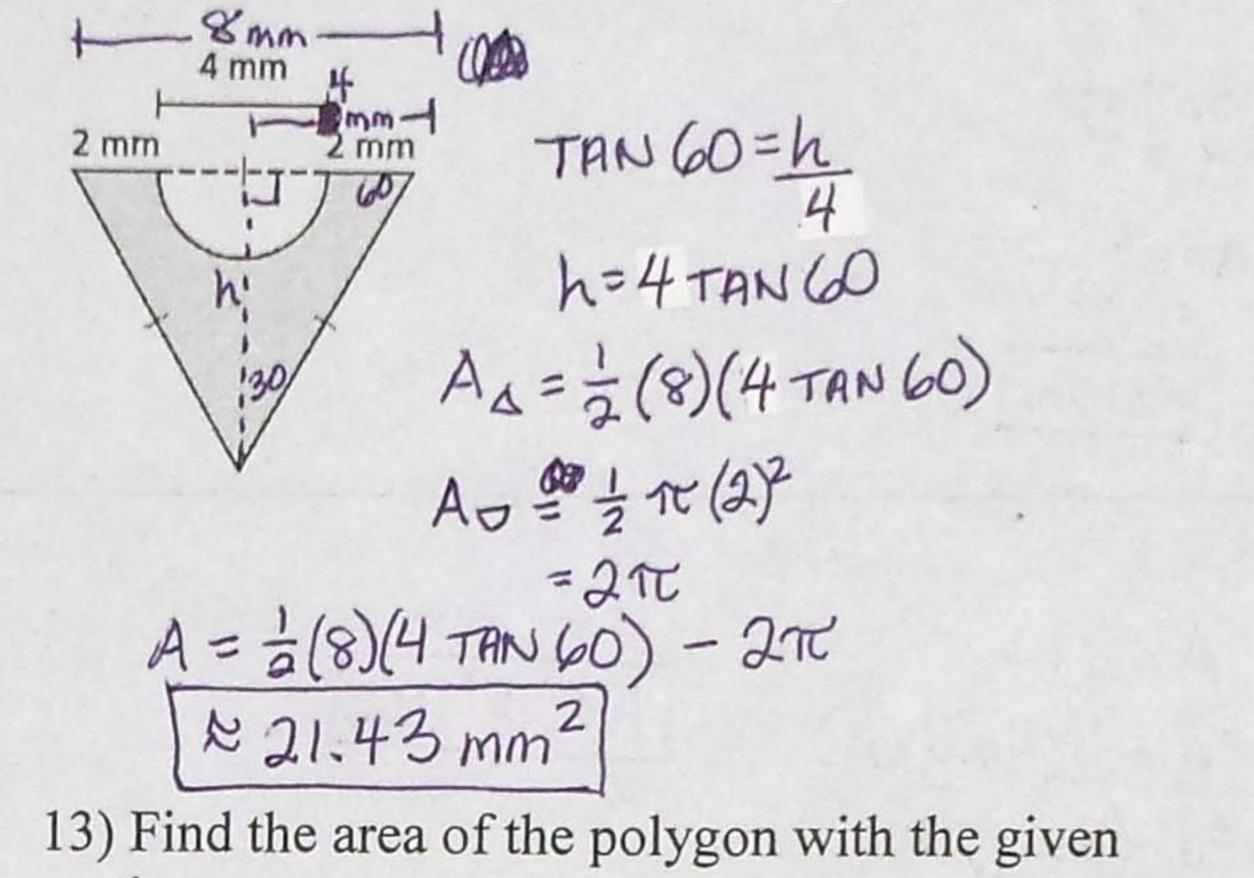
10) Find the area of the shape:



12) Draw and classify the polygon with the given vertices. Find the perimeter and area of the polygon.

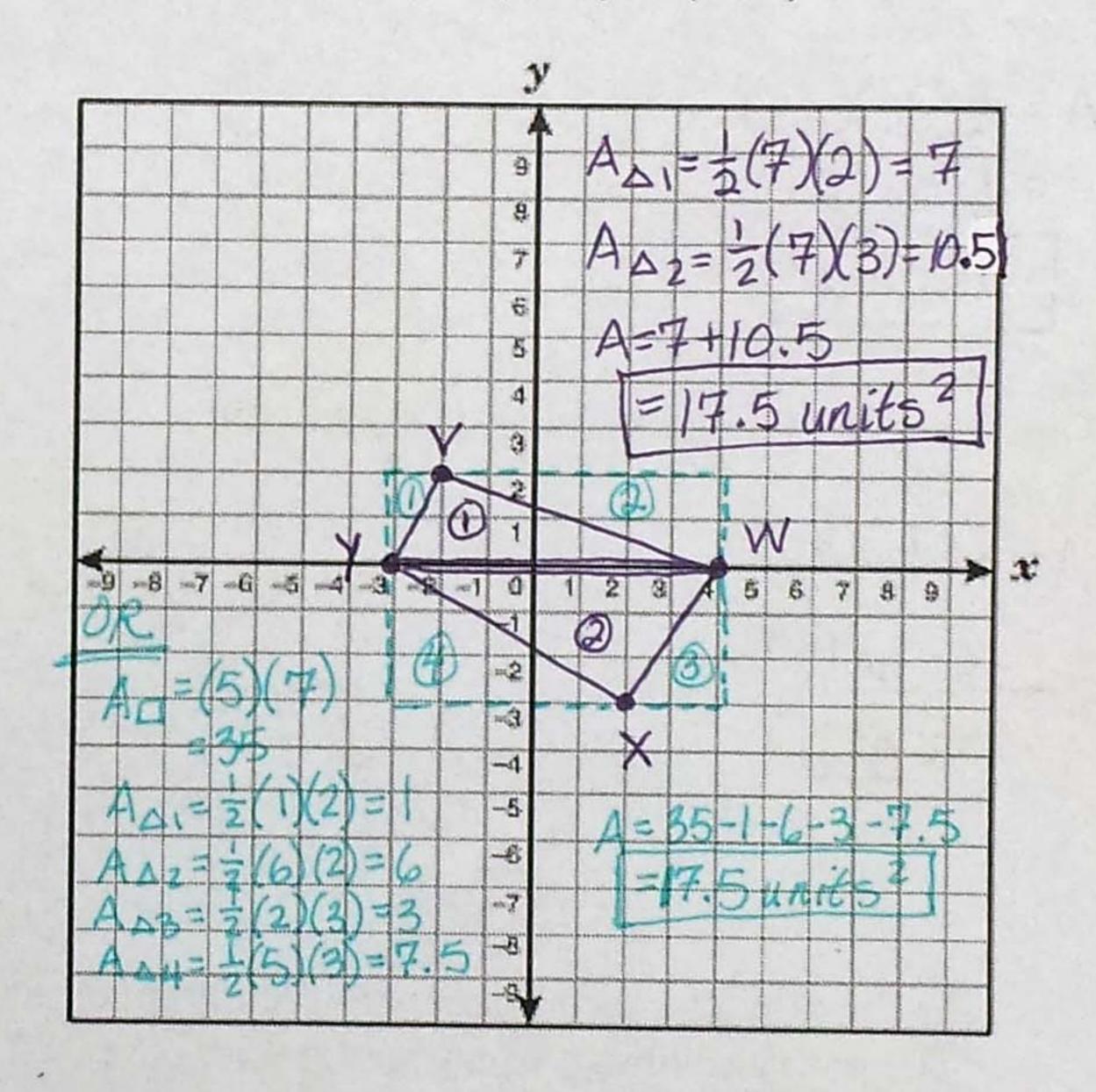


11) Find the area of the shaded region:

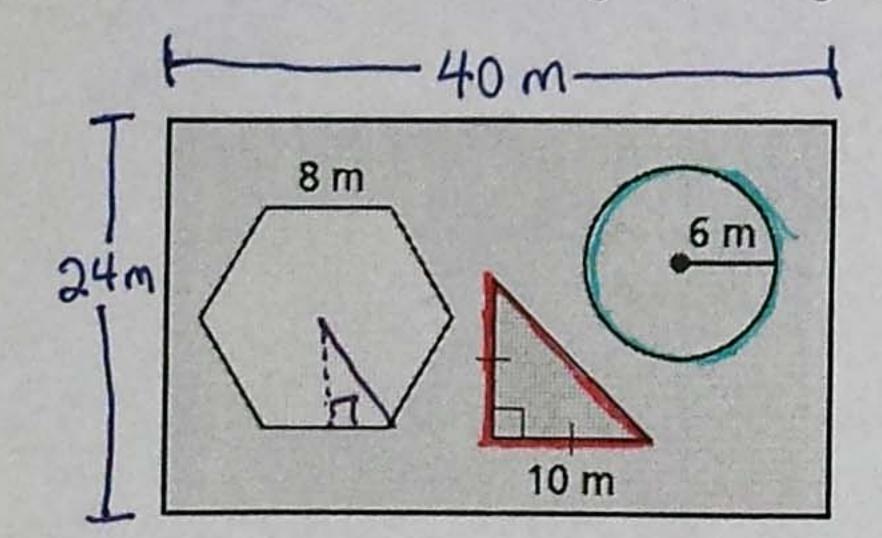


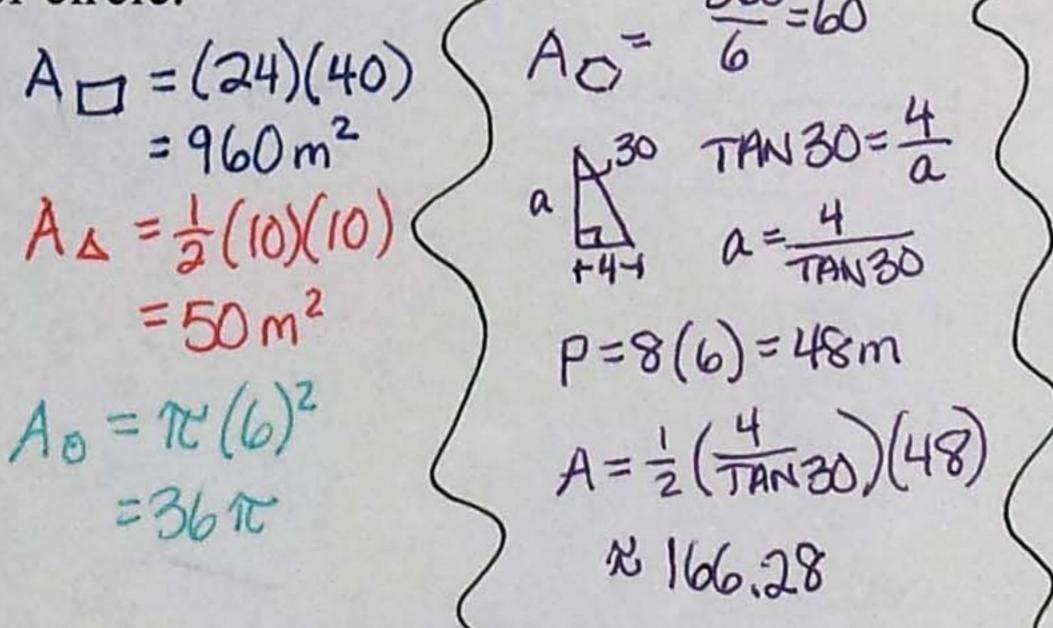
13) Find the area of the polygon with the given vertices:

$$V(-2, 2), W(4, 0), X(2, -3), Y(-3, 0)$$



14) Find the probability that a point chosen at random inside the 40m x 24m rectangle is inside the rectangle but not inside the hexagon, triangle, or circle.





PROBABILITY:
960-50-36TC-[=(TAN30)(48)] 960