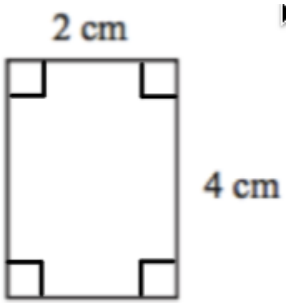
Geometry Honors
Unit 11 Area of Polygons
Unit 11 Review

Mathematician: _____
Period:_____

Target 1: Determine and calculate the area of triangles, parallelograms and regular polygons.

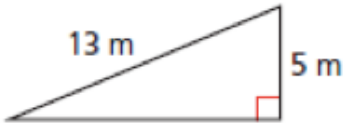
Directions: Find the area and perimeter of the following shapes.

1)



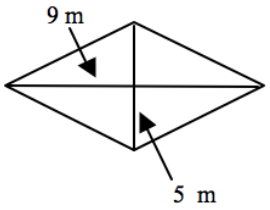
A = _____ P = _____

2)



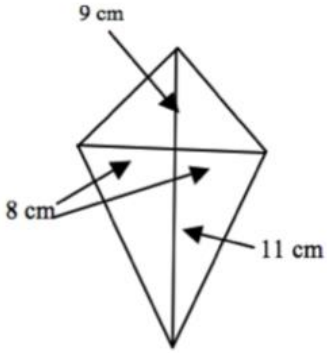
A = _____ P = _____

3) Rhombus



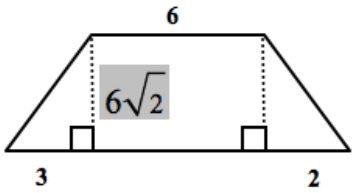
A = _____ P = _____

4) Kite



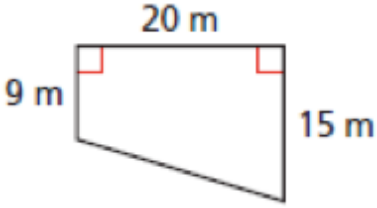
A = _____ P = _____

5)



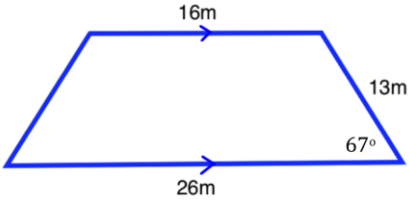
A = _____ P = _____

6)



A = _____ P = _____

7) Find the area of the trapezoid.

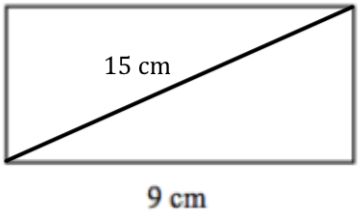


Area = _____

8) Find the base of the triangle given that the A = 58.5 in^2 and the height is 9 in.

Base = _____

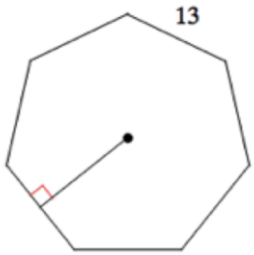
9) Find the area of the rectangle.



Area: _____

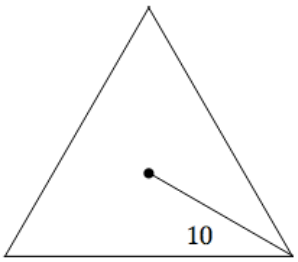
Directions: Find the area of the given polygon.

10)



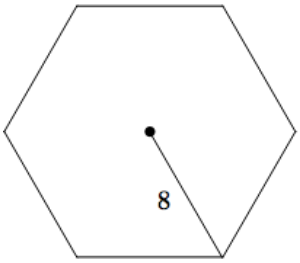
$Area =$ _____

11)



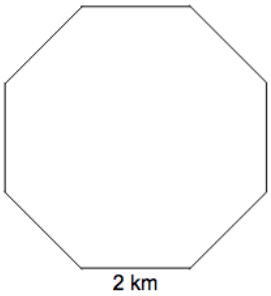
$Area =$ _____

12)



$Area =$ _____

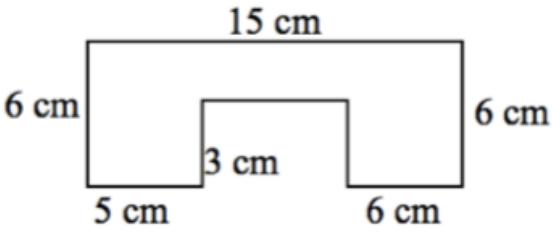
13)



$Area =$ _____

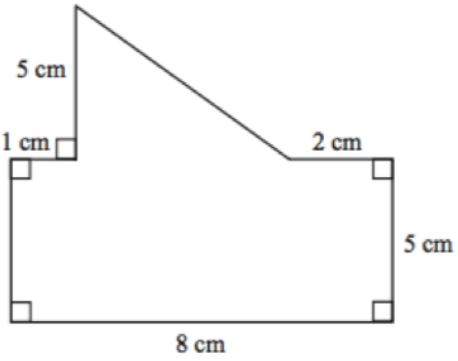
Directions: Find the perimeter area of the given figure. Assume angles that appear to be right angles are 90°.

14)



Area = _____ Perimeter = _____

15)

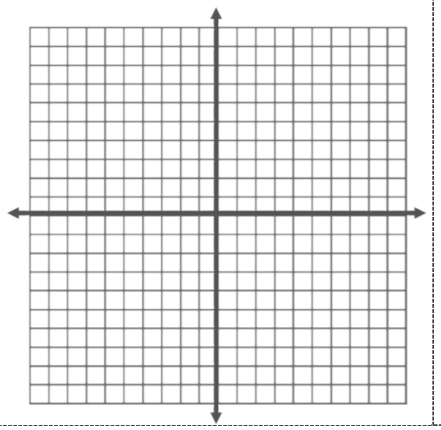


Area = _____ Perimeter = _____

Target 2: Determine and calculate area of triangles, parallelograms and regular polygons.

Directions: Determine the shape of the given quadrilateral. Prove it by showing all work!

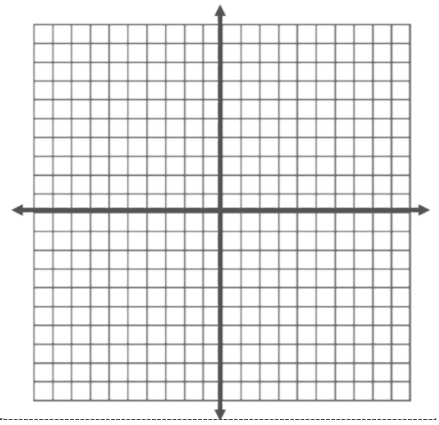
16) $F(-2,3)A(4,5)R(1,-3)M(-5,-5)$



Shape:

_____

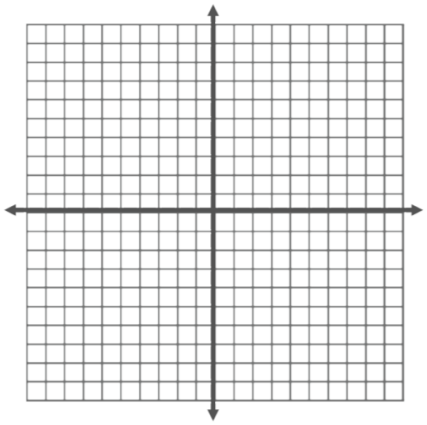
17) $C(3,6)I(6,-2)T(-2,-5)Y(-5,3)$



Shape:

_____

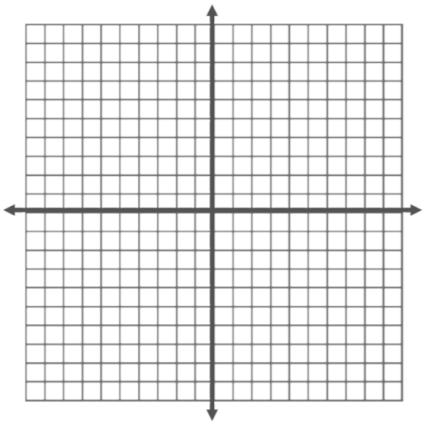
18) $A(0,-2)B(5,3)C(6,10)D(1,5)$



Shape:

_____

19) $Q(-7,0)R(-3,7)X(3,2)Y(-1,-4)$

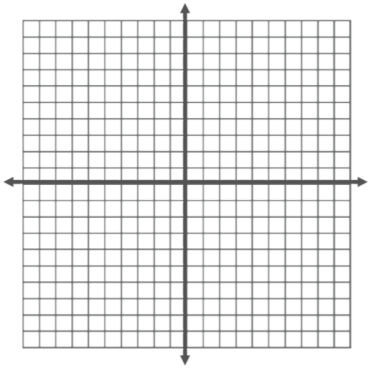


Shape:

_____

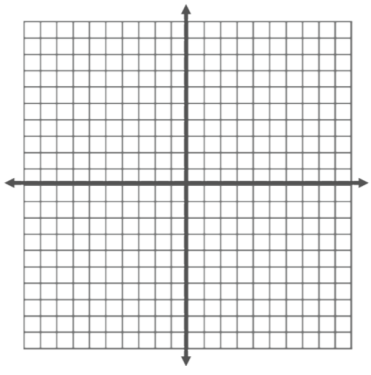
Directions: Locate the 4th point to create the indicated shape.

20) Rhombus JKLM: $J(-6,4)K(1,5)L(6,0)$



$M(\_\_\_, \_\_\_)$

21) Square ABCD: $A(0,0)B(4,3)C(7,-1)$

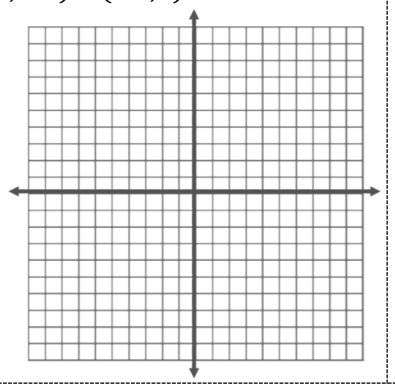


$D(\_\_\_, \_\_\_)$

Target 3: Using the coordinate plane, calculate the area and perimeter of a figure

Directions: Find the perimeter and area of the given figure. Show all work!

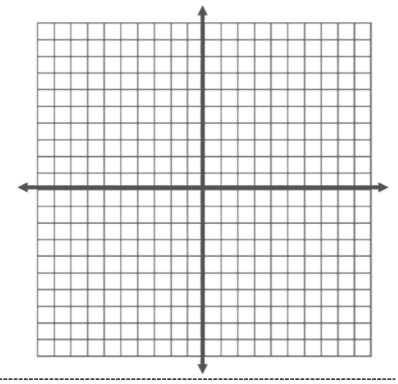
22) Kite: $S(1,5)N(3,2)O(1,-3)W(-1,2)$



Area: _____

Perimeter: _____

23) Trapezoid: $R(1,5)A(4,7)I(8,1)N(2,-3)$

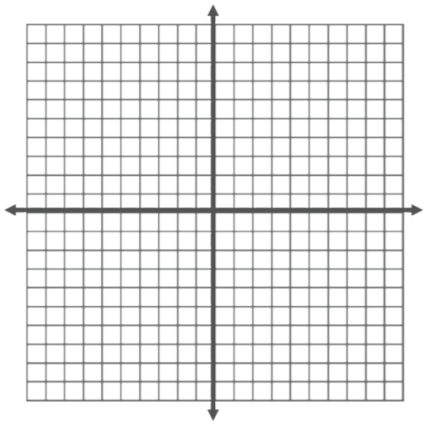


Area: _____

Perimeter: _____

Directions: Classify the shape. Then find the perimeter and area of the given shape. Show all work!

24) $W(-5,4)I(4,8)N(8,3)D(-2,-2)$

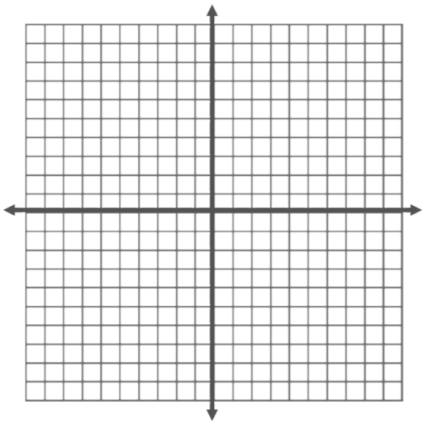


Shape: _____

Perimeter: _____

Area: _____

25) $H(3,2)A(6,2)I(0,-2)L(-3,-2)$

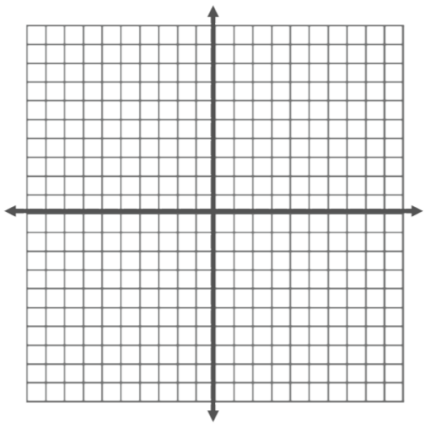


Shape: _____

Perimeter: _____

Area: _____

26) $S(-3,3)N(1,7)O(7,6)W(4,2)$

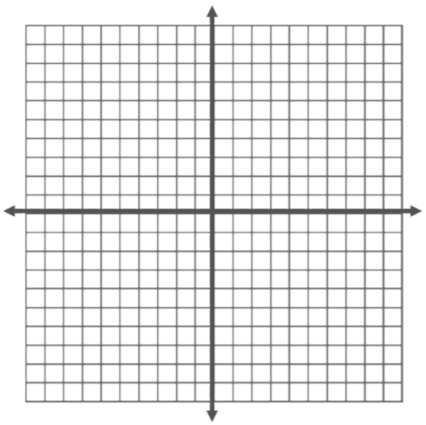


Shape: _____

Perimeter: _____

Area: _____

27) $S(-2,3)U(2,-1)N(8,9)$



Shape: _____

Perimeter: _____

Area: _____