

Define the following vocabulary words.

Adjacent angles

Vertical angles

Perpendicular

Parallel

Parallelogram

Quadrilateral

Rhombus

Trapezoid

Reflection symmetry

Rotation symmetry

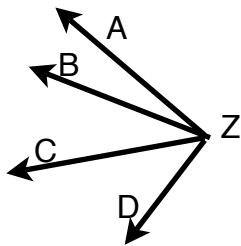
Translation

Isosceles Triangle

1) What angle is adjacent to the angle AZB?

2) What angle is adjacent to the angle AZC?

3) If AZB is 20° and BZC is 35° and AZD is a right angle. What is the measure of CZD?



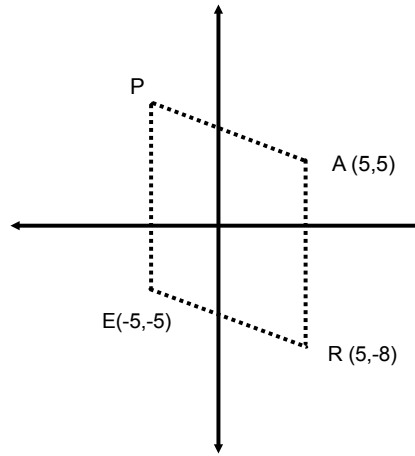
1) _____

2) _____

3) _____

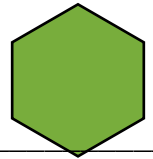
Chapter 7 Pre-Opportunity

4) If PARE is a parallelogram then find the coordinates of point P



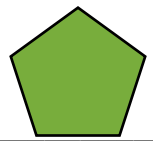
4) _____

5) Draw in the lines of symmetry.



5) _____

6) Draw in the lines of symmetry.



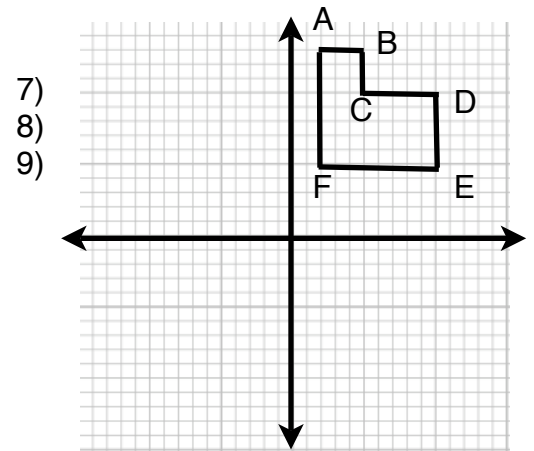
6) _____

7) Reflect ABCDEF over the y axis.

8) Reflect ABCDEF over the x axis.

9) Redraw ABCDEF with a translation of $\langle -10, -15 \rangle$

10) Write a vertex matrix of the vertices in problem 9.

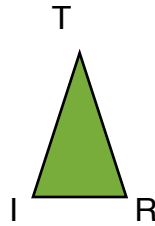


7)
8)
9)

10)

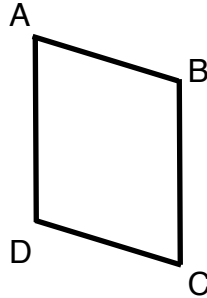


11) the ΔTRI is an isosceles triangle. The measure of angle T is 35° . What is the measure of angle R?



11) _____

12) Parallelogram ABCD. The measure of angle A is 46° . What is the measure of angle C?



12) _____

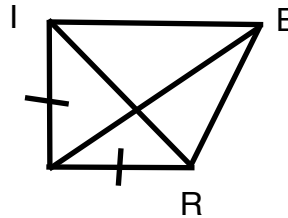
13) What is the measure of angle B?

13) _____

14) What is the measure of angle D?

14) _____

15) Find the area of ΔTRE . Given that ΔTRI is isosceles, line segment TR is 10 units, and line segment EI is parallel to line segment TR.



15) _____

16) Multiply:

$$\begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix} \cdot \begin{bmatrix} 2 & 4 & 3 \\ 6 & 3 & -5 \end{bmatrix}$$

16) _____

17) Multiply:

$$\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \cdot \begin{bmatrix} 1 & 3 & -2 \\ 5 & -3 & 2 \end{bmatrix}$$

17) _____

18) Multiply:

$$\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \cdot \begin{bmatrix} 2 & 1 & -1 \\ 2 & -6 & 3 \end{bmatrix}$$

18) _____

19) Find the area of $\triangle ABC$ using the encasement strategy on page 357 of the math book.

