

Module 5

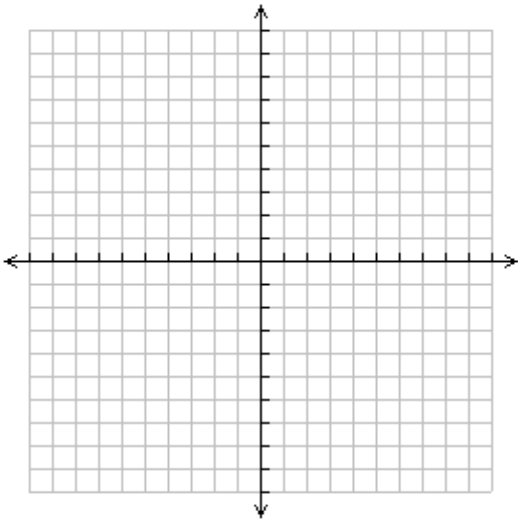
Write all solutions as an ordered pair (x, y)

{1} Solve the system by graphing:

$$\begin{cases} y = -x + 6 \\ y = x - 2 \end{cases}$$

{2} Solve the system by substitution:

$$\begin{cases} -2x - y = -35 \\ y = -x + 15 \end{cases}$$

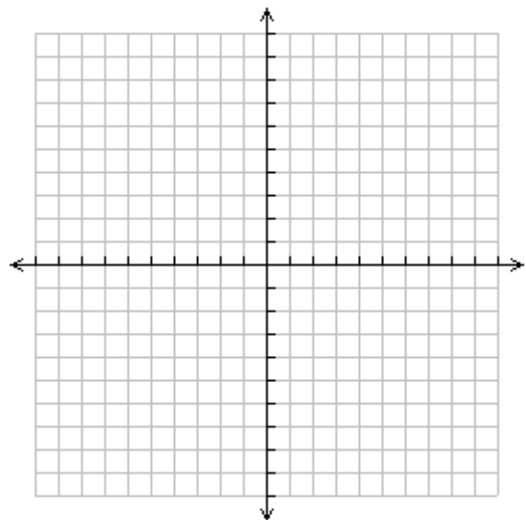


{3} Solve the system by elimination:

$$\begin{cases} 2x + y = 3 \\ 2x + 2y = 2 \end{cases}$$

{4} Graph the system of inequalities:

$$\begin{cases} x \geq y \\ 2x - y < 4 \end{cases}$$



Module 6

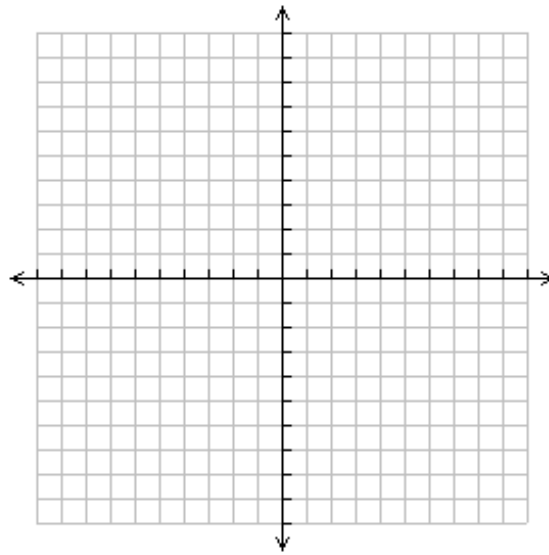
{5} Plot the points:

$$B (-7, -4)$$

$$E (-8, -8)$$

$$A (-3, -9)$$

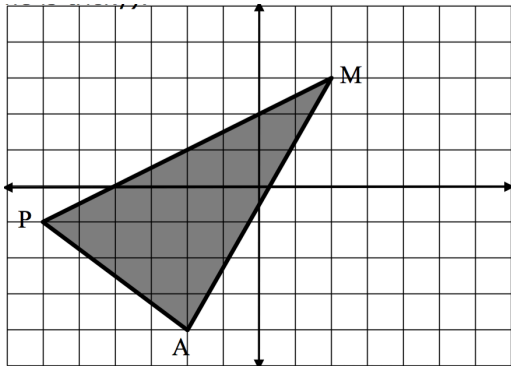
$$R (-4, -5)$$



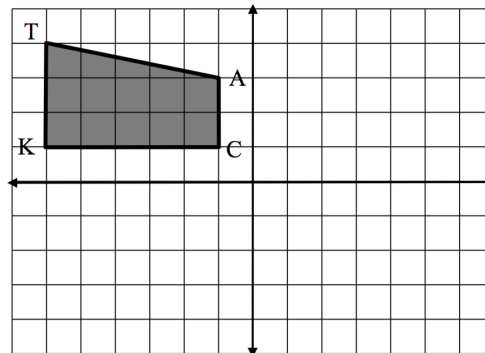
Translate: $(x + 5, y + 6)$

Remember to use appropriate notation.

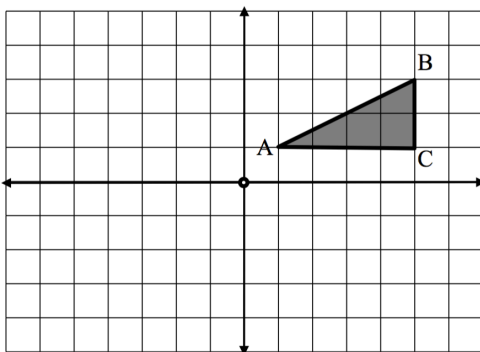
{6} Reflect MAP over the y-axis.



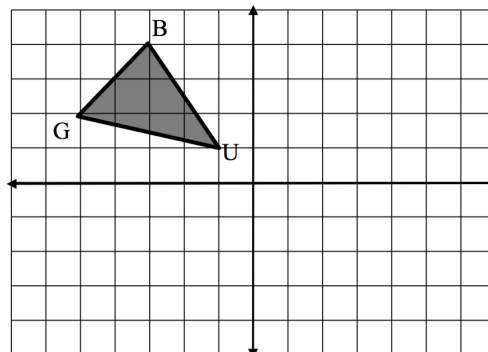
{7} Reflect TACK over $y = x$



{8} Rotate ABC 180° about the origin



{9} Rotate BUG 90° clockwise about the origin



{10} Give the slope of a line that is parallel and perpendicular to $y = -\frac{2}{3}x + 4$

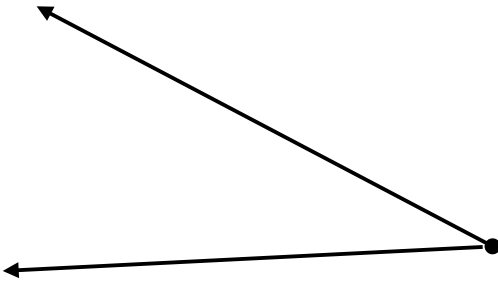
parallel slope =

perpendicular slope =

Module 7/8

{11} Sketch the constructions.

{a} Copy and bisect the angle.

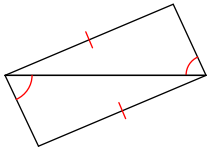


{b} Copy and bisect the segment.

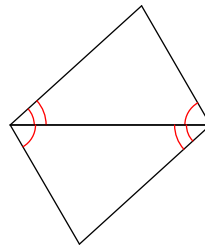


{12} State if the two triangles are congruent. If they are, state which reason is most appropriate: SSS, SAS, ASA, AAS, or HL.

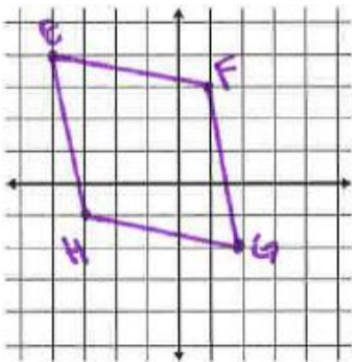
{a}



{b}



{13} Find the slopes and lengths of each side, then identify the shape and explain why it is that shape using the slopes and side lengths you found.



Slopes:

Side lengths:

Shape and explanation:

Module 9

Use the following data to answer questions 14 & 15.

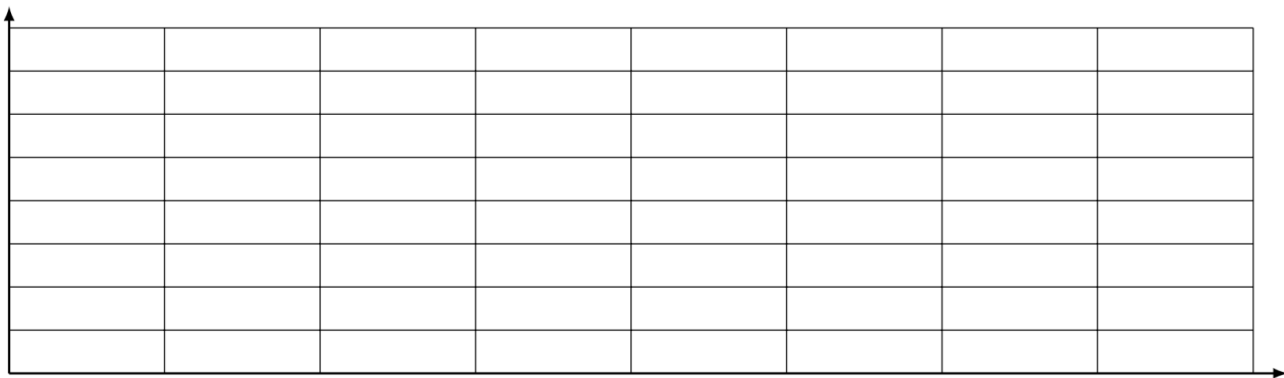
Quiz scores for 3rd period are as follows:

3, 7, 10, 8, 2, 7, 6, 8, 9, 2, 5, 7, 10, 9, 8, 4, 6, 7, 5, 9, 7, 4, 9, 8, 1

{14} Create a Box & Whisker plot for the quiz scores.



{15} Create a Histogram from the quiz scores. Use an interval of 2.



Favorite Subject by Grade					
Grade	English	History	Math/Science	Other	Totals
7th Grade	38	36	28	14	116
8th Grade	47	45	72	18	182
Totals	85	81	100	32	298

{16} Using the above Two –Way Frequency table, calculate the relative frequency of **row values**.

Favorite Subject by Grade					
Grade	English	History	Math/Science	Other	Totals
7 th grade					
8 th grade					
Totals					