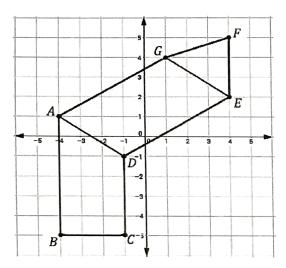
(37,0)

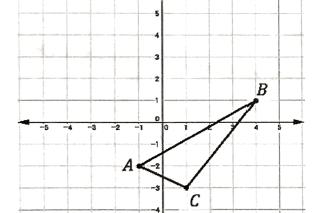
Review Sheet for the Midterm _ Short Response Practice

Partitioning:

- 1. Points A, P and B are collinear on \overline{AB} , and AP:AB = 2/7. A is located at the origin, B is located at (7,-14) and P is located at (x,y). (2,-4)
- 2. Point D is collinear with points A and K on \overline{AK} . A is at (7, 2) and K is at (2, -10). Point D partitions AK in a ratio of 5:1. Point D can assume 2 different locations. Find each location of D.
- 3. Consider the following diagram. Which of the following statements are true? Select all that apply?



- a) ____ The midpoint of AG is (-1.5, 2.5)
- b) ___ DE is exactly 5 units
- c) ___ AD is exactly 3 units
- d) FG is longer than EF
- e) The perimeter of quadrilateral ABCD is about 16.6 units
- f) The perimeter of quadrilateral ADEG is about 18.8 units
- g) ___ The perimeter of triangle EFG is 9 units



USE THE DIAGRAM TO THE LEFT FOR QUESTIONS 3 - 7

Distance and Perimeter:

3. Consider the triangle ABC below. Find the perimeter of triangle 13.1

Hint: find the length of AB, BC, and AC separately then add them all together to find the perimeter.

Transformations:

4. Translate the figure according the rule

 $(x,y) \rightarrow (x-3, y+2)$ and write the coordinates.

A'(-4,0) B'(1,3) C'(-2,-1) 5. Reflect the figure across the line y = x.

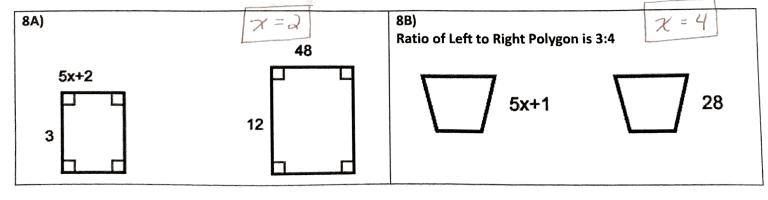
6. Reflect the figure across the x-axis.

7. Rotate the figure 180° counterclockwise.

A'(1,a) B'(-4,-1) C'(-1,3)

Similar Polygons:

The polygons in 8 (A and B) are similar. Solve for x.



9. Parallel and Perpendicular Lines

Match the equation on the left to the line description on the right.

A.) y = 13

B

1. A line perpendicular to -3x + 2y = 8

B.) $y = -\frac{2}{3}x - \frac{2}{3}$

2. A line parallel to 2y - x = 2

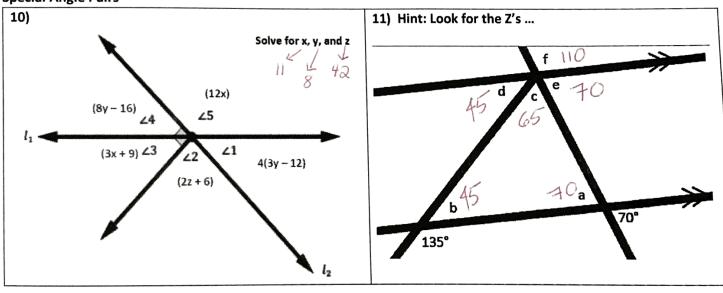
C.) 4x - 7y = 56

3. A line perpendicular to x = -13

D.) 2x - 4y = -10

4. A line parallel to 16x = 28y

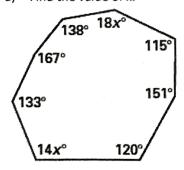
Special Angle Pairs



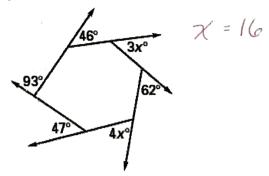
Angles of a Polygon:

a) Find the value of x.

 $\chi = 8$



b) Find the value of x.



Unit 1 Formulas/Rules:

Midpoint, Distance, Partitioning, Equations of a Line, Parallel and Perpendicular Slopes

Unit 2 Formulas/Rules:

Translation Rules, Reflection Rules, Rotations Rules, Dilations Rules, Finding Scale Factor

Unit 3 Formulas/Rules:

Complementary, Supplementary, Vertical Angles, Parallel Lines cut by a Transversal Special Angle Pairs

Unit 4 Formulas/Rules:

Interior and Exterior Angles of a Polygon, Rotational Symmetry, Similarity Proportions, Scale Factor