

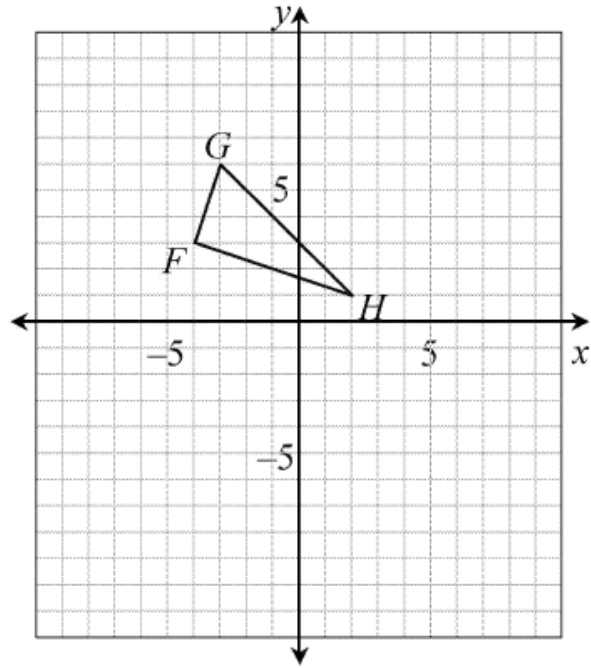
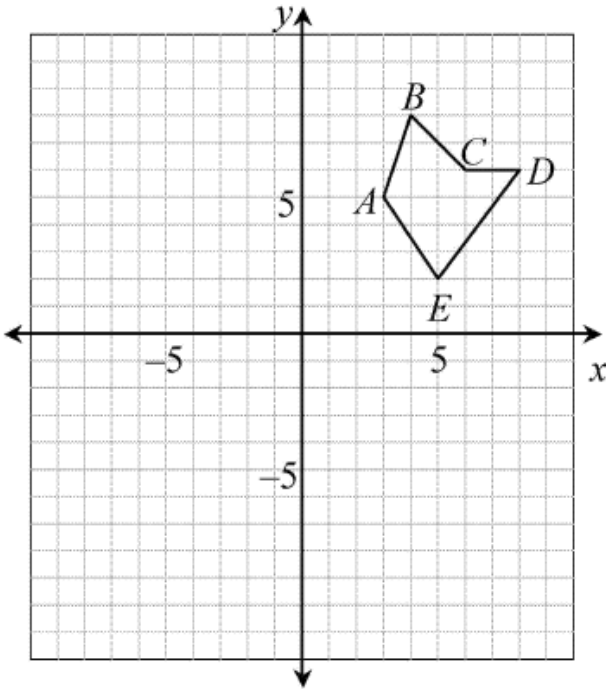
**Chapter 1**  
**Individual Test Review WS**

**Name:** \_\_\_\_\_  
**Team:** \_\_\_\_

1. Reflect ABCDE across the x axis.

2. Rotate FGH 90° clockwise about the origin.

3. Translate FGH three units to the left and five units down.



Solve for x:

1.  $8 - (4 - 5x) = 10x - 7$

2.  $\frac{8}{x-6} = \frac{2}{3}$

1. \_\_\_\_\_

2. \_\_\_\_\_

Evaluate if  $x = -3$ :

3.  $5x^3 + 3(x-1) - 7x^2 + 4$

3. \_\_\_\_\_

4. Identify the slope and y-intercept:  $y = \frac{1}{2}x - 2$

4.  $m =$  \_\_\_\_\_  $b =$  (\_\_\_\_, \_\_\_\_)

5. Which letters in the word GEOMETRIES have rotation symmetry? reflection symmetry? neither?

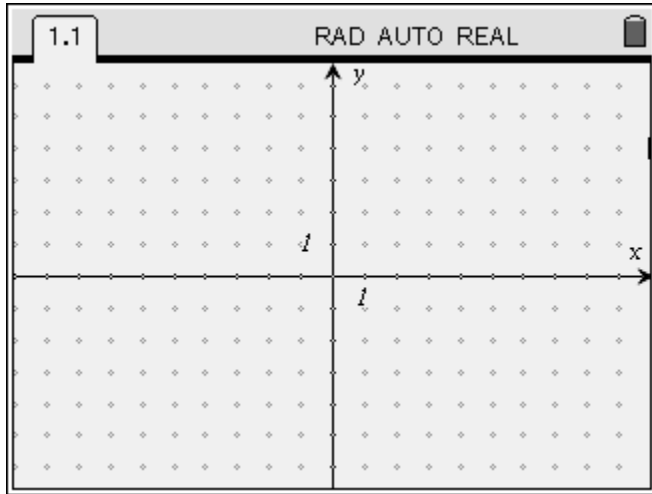
6. Which quadrilaterals from your Shape Toolkit have congruent sides? Which have parallel sides? (LOOK AT YOUR TOOLKIT!)

7. What is the probability of rolling a 2 or a 3 on a 6-sided die?

Graph the following linear equations below.

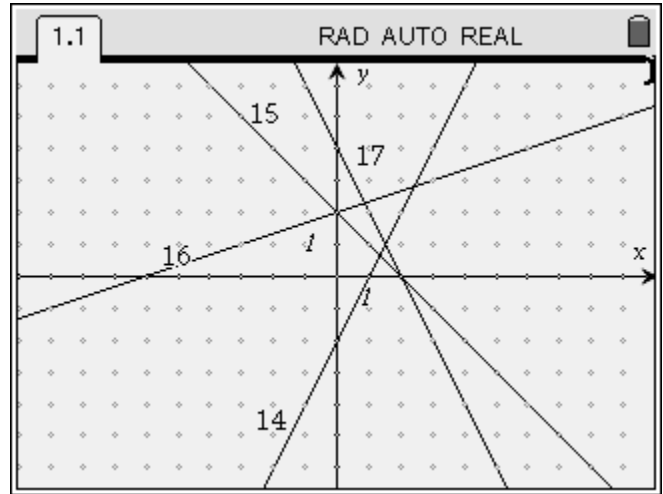
8.  $y = \frac{-3}{5}x - 1$

9.  $y = 4x$



10-11.

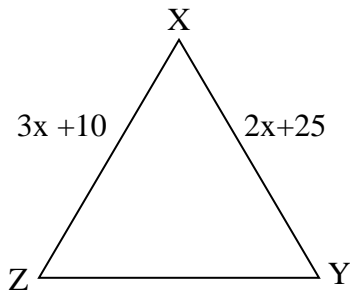
Using the slope and y-intercept, write the equations of line 14 and 15.



10. Line 14: \_\_\_\_\_

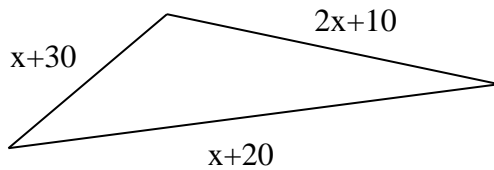
11. Line 15: \_\_\_\_\_

12. Triangle XYZ is equilateral. Solve for x, then find the perimeter of XYZ.



**x:** \_\_\_\_\_  
**Perimeter:** \_\_\_\_\_

13. The perimeter of the triangle is 100 units. Solve for x.



**x:** \_\_\_\_\_

**Answer Key:**

- 1: 11/5 (or 2.2)
- 2: x=18
- 3:  $5(-27)+3(-4)-7(9)+4 = -206$
- 4:  $m = \frac{1}{2}$ ,  $b = (0,-2)$
- 5. Rotation: O, I, S  
 Reflection: E, M, T, I, O  
 Neither: G, R
- 6: Know the shapes on your toolkit

- 7: 2/6 (or 1/3 when simplified)
- 8: Start the line at (0,-1) and go down 3, right 5.
- 9: Start the line at (0,0) and go up 4, right 1.
- 10:  $y = 2x - 2$
- 11:  $y = -x + 2$
- 12. Start with  $3x+10 = 2x + 25$ .  $x = 15$ , so each side is 55. Perimeter = 165.
- 13. Add all sides together and set equal to 100.  $x = 10$