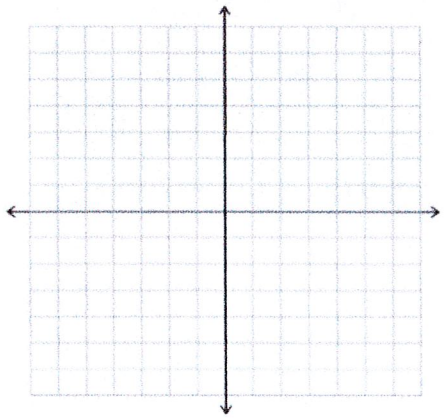
Name _____ date _____ due _____

Geometry take home assignment #1 (THA1) All work must be shown and must be valid.

1. Plot:

A (-2, 5) B (3, -2) C (5, 0) D (0, -5)



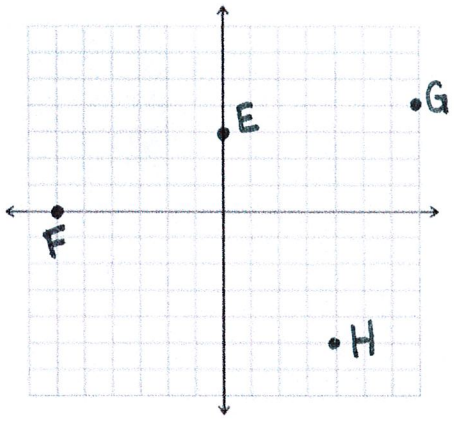
2. Write the coordinates

E _____

F _____

G _____

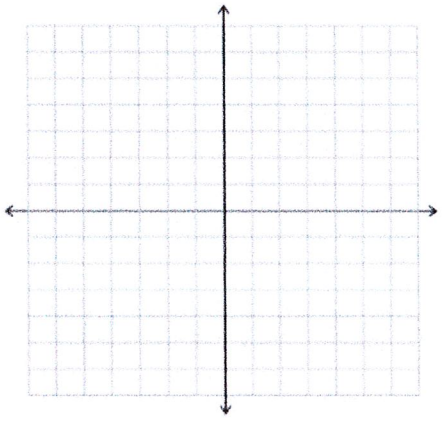
H _____



3. Calculate the slope. You may graph and use $\frac{rise}{run}$, the slope slide, or the slope formula:

$$\frac{y_2 - y_1}{x_2 - x_1}$$

(-3, 6) (-5, 2)

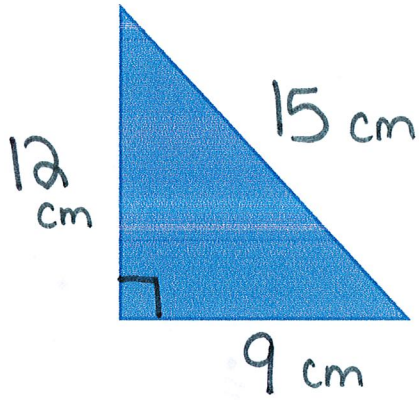


4. Solve: $5x - 8 = 32$

5. find the perimeter (distance around an object) and area (A = ½ bh)

perimeter _____

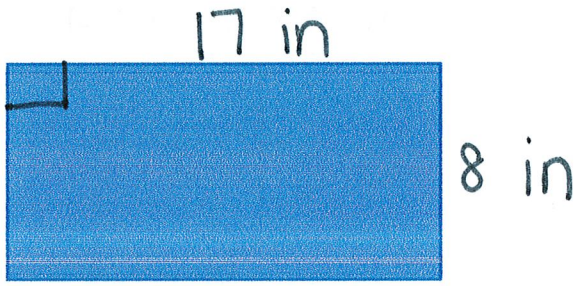
area _____



6. Find the perimeter and area (A = bh)

perimeter _____

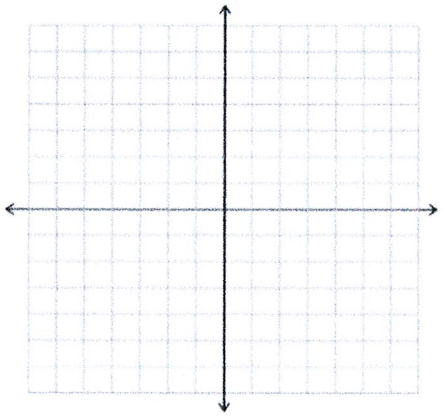
area _____



7. graph the line. y = mx = b; b = y-intercept,

m = slope = $\frac{rise}{run}$

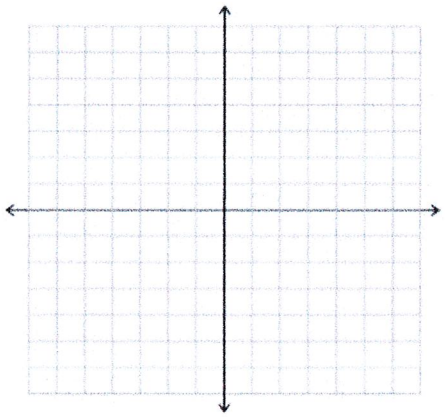
y = 2x – 3 m = _____ b = _____



8. graph the line. y = mx = b; b = y-intercept,

m = slope = $\frac{rise}{run}$

y = $-\frac{1}{3}x + 4$ m = _____ b = _____



9. solve: -2x + 4 = -10

10. solve: 5x + 8 = -3x + 24