9.2 HW Writing Equations of Lines

Name_____

V

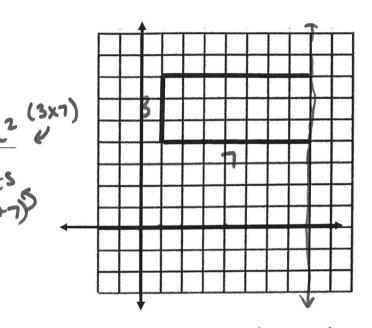
Write the equation of the line(s) needed to complete the parallelogram.

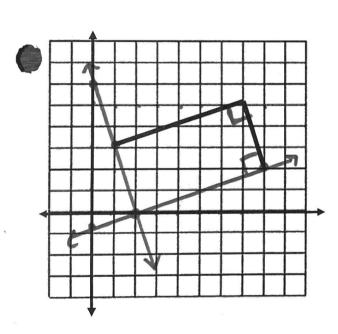
1. m = undefined

Equation = X = 8

What is the area of this figure? 21 42

What is its perimeter? 20 units (3+3+7+7)





2. m1 = 3 (8,2) 2= 3 (8) H5

Equation $y = \frac{1}{3}x - \frac{3}{3}$

m₂ = **-3**

Equation 2 = y = -3x + 6 m = 3 + 6

What type of parallelogram is this?

(slopes are opp. rcc.)

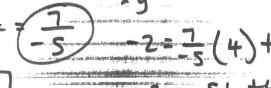
3=-3(1)+6 3=-3+6 +1 +3 6=6

3. Write the equation of the line that passes through (4, -2) and (-1, 5).

m: 42-71 5.

-1-4

-4=- = x+3.6



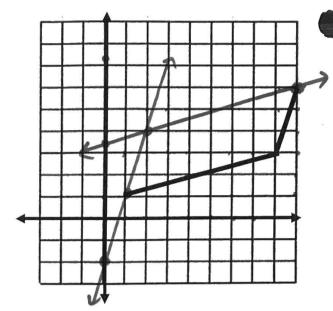
=1 = · S. 6 +6



Write the equations of the lines needed to complete the parallelogram:

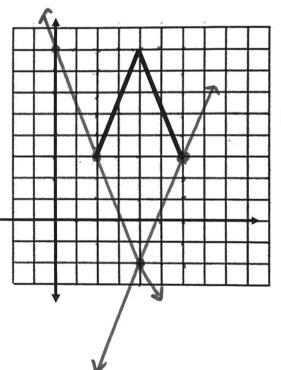
4.
$$m_1 = \frac{2}{7}$$
 $m: \frac{2}{7} (9,6)$
Equation: $g: \frac{2}{7} \times \frac{1}{7} \times \frac{$

$$m_2 = 3$$
 $m: 3 (1,1)$
Equation₂ = $y=3x-2$
 $1=3(1)+6$
 $-3=3$
 $-2=6$



$$m_2 = \frac{-\frac{5}{2}}{2}$$
 $m:-\frac{5}{2}(2,3)$

What type of parallelogram is this?



6. Write the equation of the line that passes through (-2, 7) and is parallel to y = -x/3 + 7/3

8=6

7. Write the equation of the line that passes through (1, -4) and is perpendicular to y = 4x + 7.3

