HOMEWORK 9 Term 4 Sheet 4 advanced

1. Write an equation whose graph is parallel to $y = 7x - 2$

2. Are these 2 graphs parallel?

$y + 2x - 5 = 0$

$y + 3 = -2x$

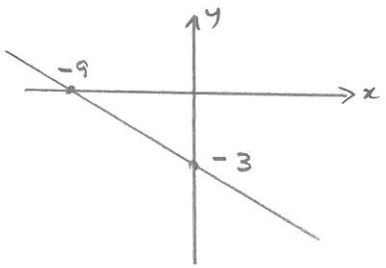
3. When lines are perpendicular the product of their gradients is -1 i.e. $m_1 \times m_2 = -1$.

So a line $\perp$ to $y = -2x + 5$ has a gradient of?

4. Sketch using the intercept/intercept method:

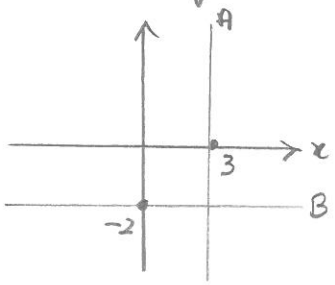
$3x = 12 - y$

5. Find the equation:



6. How many units from $(-2, 7)$ to $(3, 11)$

7. Find the equation:



(A)

(B)

8. Is $(-1, -9)$ on the line $y = 4x - 5$?

9. 2 lines pass thru $(0, 5)$ If the slope of the 1ST line is $\frac{1}{3}$, what is the equation of the 2ND line?