

Answer all questions directly on the page. Show **ALL** work for full marks.

1. What two things do you need to have to find the equation of a line? (2 marks)

a)

b)

2. Find the slope **and** y-intercepts for the following: (12 marks)

a) $-2x + 8y - 32 = 0$

b) $3x - 4y - 12 = 0$

c) $x + 4y = 28$

d) $-8x - 4y = -20$

3. Find the **equation** of the line given the following properties: (6 marks)

(a) the slope is -2 and the y-intercept is (0,4)

(b) the slope is -3 and the line passes through the point (2, -14)

(c) the line passes through the points (-4,9) and (4,3)

