Review Time...

1) Review - Coordinate Geometry.pdf

2) **Text: Read Skills Summary p. 387**

Practice Questions p. 388 - 390

Practice Test p. 391

Test Review

Answers must be in general form Ax+By+C = 0

1. Find the equation of a line which has x-int = 2 and y-int = 4.

2. Find the equation of the line parallel to 2x-3y+21=0 that passes through (4,5).

3. Find the equation of a line with a slope equal to -1/3 and passes through (3,-8).

Answers must be in general form Ax+By+C = 0

1. Find the equation of a line which has x-int = 2 and y-int = 4.

(2, 0) (0, 4)

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4-0}{0-2} = -2$

$y = mx + b$

$y = -2x + 4$

$2x + y - 4 = 0$

$y = mx + b$

$y - y_1 = m(x - x_1)$

2. Find the equation of the line parallel to 2x-3y+21=0 that passes through (4,5).

$\frac{-3y}{-3} = \frac{-2x}{-3} - \frac{21}{-3}$

$y = \frac{2}{3}x + 7$

$y - y_1 = m(x - x_1)$

$y - 5 = \frac{2}{3}(x - 4)$

$3(y-5) = 2(x-4)$

$3y - 15 = 2x - 8$

$-2x + 3y - 15 + 8 = 0$

$-2x + 3y - 7 = 0$

$2x - 3y + 7 = 0$

3. Find the equation of a line with a slope equal to -1/3 and passes through (3,-8).

$y - y_1 = m(x - x_1)$

$y + 8 = -\frac{1}{3}(x - 3)$

$3(y+8) = -1(x-3)$

$3y + 24 = -x + 3$

$x + 3y + 24 - 3 = 0$

$x + 3y + 21 = 0$

$y = mx + b$

$y - y_1 = m(x - x_1)$

4. Find the equation of a line that passes through (4, 12) and (3, 7).

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{7-12}{3-4} = \frac{-5}{-1} = 5$

$y - y_1 = m(x - x_1)$

$y - 12 = 5(x - 4)$

$y - 12 = 5x - 20$

$-5x + y - 12 + 20 = 0$

$-5x + y + 8 = 0$

$5x - y - 8 = 0$

$y - 7 = 5(x - 3)$

$y - 7 = 5x - 15$

$-5x + y - 7 + 15 = 0$

$-5x + y + 8 = 0$

$5x - y - 8 = 0$

Which graph has the equation 3x+2y-6=0.

$y = mx + b$ (m: slope, b: y-int)

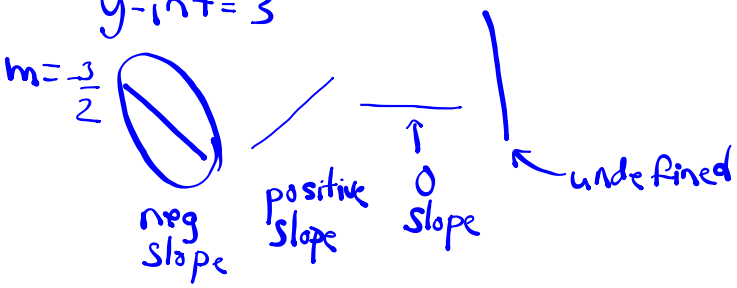
$3x + 2y - 6 = 0$

$\frac{2y}{2} = -\frac{3x}{2} + \frac{6}{2}$

$y = -\frac{3}{2}x + 3$

y-int = 3

$m = -\frac{3}{2}$



Given -6x + 2y -8 = 0 find...

$y = mx + b$ (m: slope, b: y-int)

$y = \_\_x + \_\_$

a) slope = 3

$\frac{2y}{2} = \frac{6x}{2} + \frac{8}{2}$

$y = 3x + 4$

b) y-int = 4

c) x-int let y = 0

$y = 3x + 4$

$0 = 3x + 4$

$3x + 4 = 0$

$\frac{3x}{3} = \frac{-4}{3}$

$x = -\frac{4}{3}$

$(-\frac{4}{3}, 0)$

Attachments

Review - Coordinate Geometry.pdf