5.3 Practice B (point-slope to slope-intercept eq)

Date

Period

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: 
$$(-5, -2)$$
, slope =  $-\frac{3}{5}$ 

$$\frac{1}{100} = \frac{1}{100} = \frac{1}$$

3) through: 
$$(4, -2)$$
, slope =  $-\frac{7}{4}$ 

$$y+2 = -\frac{7}{4}(x-4)$$

$$y+2 = -\frac{7}{4}(x-4)$$

$$y+2 = -\frac{7}{4}x+7$$

$$-2$$

$$y=-\frac{7}{4}x+5$$

2) through: 
$$(5, 3)$$
, slope =  $-\frac{1}{5}$ 

$$y-3 = -\frac{5}{5}(X-5)$$
 $y-3 = -\frac{1}{5}(X-5)$ 
 $y-3 = -\frac{1}{5}(X-5)$ 
 $y=-\frac{1}{5}X+1$ 
 $y=-\frac{1}{5}X+4$ 

Write the slope-intercept form of the equation of the line through the given points.

4) through: (-4, 2) and (-2, -1)

$$F_{1}NDM = \frac{2+1}{-4+2} = \frac{3}{-2} M = \frac{-3}{2}$$

pickapt pls y-2= -3 (X+4)

$$\frac{9-2}{+2} = \frac{-3}{2} \times -6 \\ +2$$

$$\frac{1}{2} \times -\frac{3}{2} \times -\frac{1}{2} \times -\frac{1}{2}$$

 $\frac{1}{6}$  6) through: (0, -3) and (3, -1)

\* can you think of a Short cut?

$$M = \frac{-3+1}{0-3} = \frac{-2}{-3} \qquad M = \frac{2}{3}$$

$$y = \frac{2}{3}X - 3$$

5) through: (-2, -3) and (-4, 1)

$$m = \frac{-3-1}{-z+4} = \frac{-4}{2} |_{M=-2}$$

PIS  $\sqrt{+3} = -2(x+2)$   $y+3 = -2 \times -4$ -3