Bathroom breaks are to be taken before class!!

Do NOT move the desk!!

Turn your phone OFF!!

Put your phone up!!

Sit down!! Be quiet!!

Prepare to work!!

Keep your hands to yourself!!

Oct 15-8:10 AM

Chap 3 Sec 7

Pg 33 - Writing Equations in Point-Slope Form

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

Never sub for y & x

(x_1, y_1) ⇒ given Point on the line

Oct 15-9:48 AM

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

1) $(4, -2)$; $m = \frac{1}{4}$

x_1 y_1

$y - (-2) = \frac{1}{4}(x - 4)$

$y + 2 = \frac{1}{4}x - 1$

$-2 \quad -2$

$y = \frac{1}{4}x - 3$

$y = mx + b$

$m = \frac{1}{4} \quad b = -3$

2) $(-3, 5)$ $m = \frac{-4}{3}$

x_1 y_1

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

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

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

$+5 \quad +5$

$y = \frac{-4}{3}x + 1$

3) $(2,2)$ $m=-1$

$y-2=-1(x-2)$

$y-2=-x+2$

$+2 \quad +2$

$y=-x+4$

$m=-1 \quad b=4$

4) $(-1,-5)$ $m=4$

$y-(-5)=4(x-(-1))$

$y+5=4(x+1)$

$y+5=4x+4$

$-5 \quad -5$

$y=4x-1$

$m=4 \quad b=-1$

Oct 21-11:38 AM

Oct 21-11:38 AM

Oct 21-11:38 AM

Oct 21-11:38 AM

Oct 21-11:38 AM

Oct 21-11:38 AM