

Ch 6.5 Point slope form

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

(x_1, y_1) is the given point. m = slope

Ex1a) $(2, -1)$ $m = 3$

Dec 16-8:20 AM

Ex1b) $(8, -7)$ and $m = 0$

Try1. $(-3, 10)$ and $m = 4$

Dec 16-8:31 AM

Ex2) Use point slope form, then rewrite the equation in slope intercept form.

Ex2a) $m = 2, (1, 4)$

Ex2b) $(4, 0)$ $m = 1$

Ex 2c) $(-1, 1)$ $m = -1/8$

Dec 16-8:35 AM

Ex3) Given 2 points write in point slope form. Then in slope intercept.

Rules: 1. Find the slope $m = \frac{y_1 - y_2}{x_1 - x_2}$

2. Pick one point to sub into point slope.

3. Rewrite in slope intercept.

Ex3a) $(5, 12)$ $(6, -2)$

Dec 16-8:32 AM

Ex3b) $(-4, -1)$ $(-9, -2)$

Try 2. $(2, 12)$ $(7, 2)$

Dec 16-8:34 AM