

Name

Write Linear Equations in Point-Slope Form

Alg I

I can write linear equations in point-slope form.

Ch. 3 Quiz

* Complete Skills Practice, pg. 245, #

Example 5:

5)

Weight x	1	4	5	10	12
Cost y	0.37	1.06	1.29	2.44	2.90

$$m = \frac{1.06 - 0.37}{4 - 1} = \frac{0.69}{3} = \boxed{.23} \quad \frac{1.29 - 1.06}{5 - 4} = \frac{0.23}{1} = \boxed{.23}$$

$$\frac{2.44 - 1.29}{10 - 5} = \frac{1.15}{5} = \boxed{.23} \quad \frac{2.90 - 2.44}{12 - 10} = \frac{0.46}{2} = \boxed{.23}$$

Yes, because the cost increases at a constant rate of .23 per ounce.

$$0.37 = .23(1) + b$$

$$.37 = .23 + b$$

$$\underline{-.23 \quad -.23} = 0$$

$$b = .14$$

$$\boxed{C = 0.23w + 0.14}$$