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**3-19.** Which of the expressions below are equivalent to 16*x*8? Make sure you find *all* the correct answers!

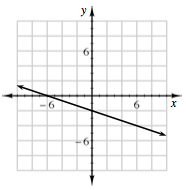
* 1. (16*x*4)2
  2. 8*x*2 · 2*x*6
  3. (2*x*2)4
  4. (4*x*4)2

**3-20.** Rewrite each expression below without negative or zero exponents.

1. 4−1
2. 70
3. 5−2
4. *x*−2

**3-21.** Simplify and solve each equation below for *x*.  Record your work.

* 1. 3*x* − 7 = 2 b. 1 + 2*x* − *x* = *x* −5 + *x*

**3-22.** For the line graphed to the right:

* 1. Determine the slope.
  2. Find the equation of the line.

**3-23.** Write and solve an equation to represent the given situation.  Be sure to define your variable.

Samantha currently has $1500 in the bank and is spending $35 per week.  How many weeks will it take until her account is worth only $915?