ANSWER PRESENTATION TOOL

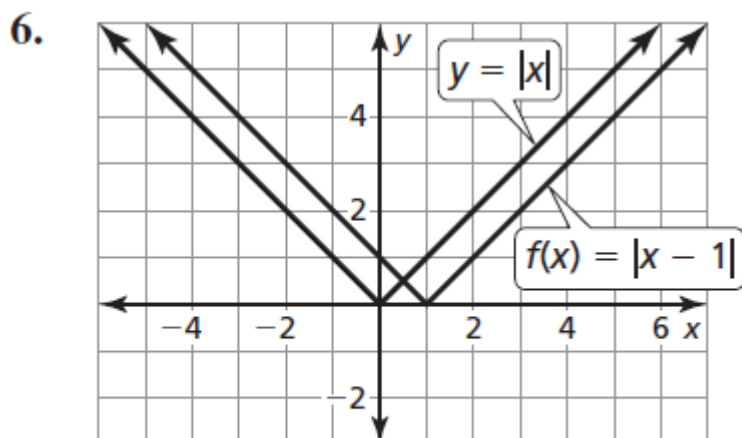Algebra 2 - Student Editic   1   Chapter Test   1-13   **ALL** EVEN   Show Solu

ODD

1. $y = 200x$; The balance increases $200 each week and the initial balance is $0.

2. $y = -\frac{1}{2}x + 50$; The price decreases $0.50 for each 1% of discount, and the initial price is $50.
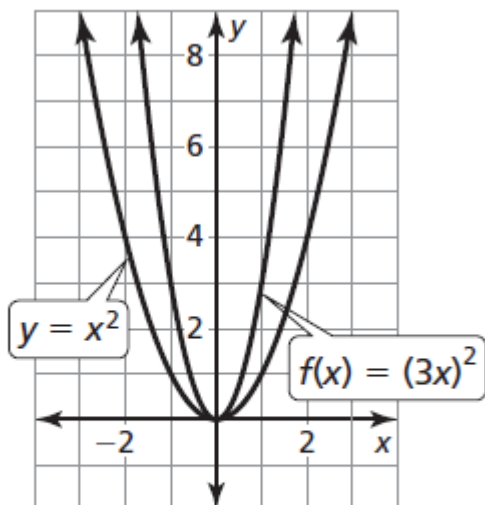
3. $(26, -3, 15)$

4. $\left(3, -\frac{1}{12}, -\frac{1}{6}\right)$

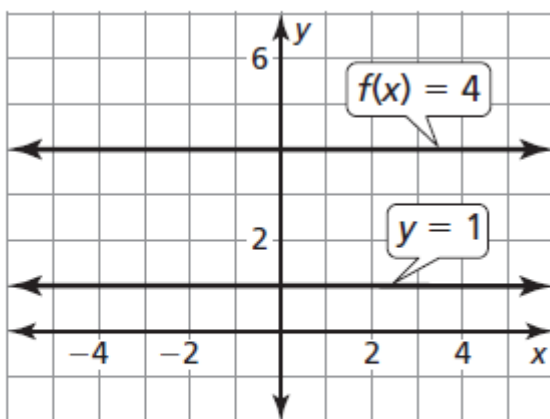5. $\left(0, \frac{13}{14}, \frac{11}{14}\right)$

6.

The graph of f is a translation 1 unit to the right of the parent absolute value function.

7.

The graph of f is a horizontal shrink by a factor of $\frac{1}{3}$ of the parent quadratic function.

8.

The graph of f is a translation 3 units up of the parent constant function.

9. B; $g(x) = 2x + 3$

10. C; $g(x) = 3x - 2$

11. A; $g(x) = -2x - 3$

12. 75 doughnuts, 30 muffins and 25 bagels; The situation is modeled by the system:

$$d = 3b$$

$$d + m + b = 130$$

$$1d + 1.5m + 1.2b = 150$$

13. horizontally shrink by a factor of $\frac{1}{2}$; first fountain: 4 ft; second fountain: 3 ft; Substitute 4 into the equations $f(t) = \frac{1}{4}\left|t - 20\right|$ and $g(t) = \frac{1}{4}\left|2t - 20\right|$.