

3.  $g(x) = x - 1$

4.  $g(x) = x$

5.  $g(x) = |4x + 3|$

6.  $g(x) = 2x - 3$

7.  $g(x) = 4 - |x - 2|$

8.  $g(x) = |4x| + 6$

9.  $f$  could be translated 3 units up or 3 units right.

10. translate  $f$  up 12,000 units; 3 weeks

11.  $g(x) = 5x - 2$

12.  $g(x) = -\frac{1}{2}x + 3$

13.  $g(x) = |6x| - 2$

14.  $g(x) = |-2x - 1| + 3$

15.  $g(x) = -3 + |-x - 11|$

16.  $g(x) = x + 1$

33. Translating a graph to the right requires subtraction, not addition;  $g(x) = |x - 3| + 2$

37. The graph has been translated 6 units left;  $A = 9$

38. The graph has been translated 5 units up;  $A = 9$

39. The graph has been reflected in the  $x$ -axis;  $A = 16$

40. The graph has been reflected in the  $y$ -axis;  $A = 25$