1) Shift the graph of $y = x^2$ right 14 units and then up 7 units.

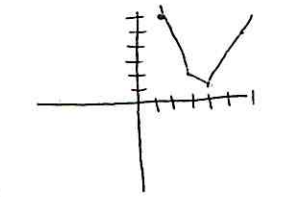
2) $g(x) = -6x^2$

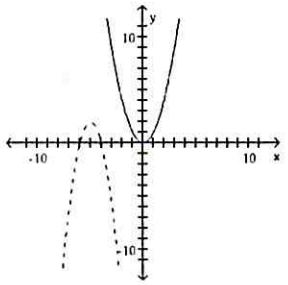
3) $g(x) = \left|\frac{x^2}{9} + 2x\right|$

4) Yes, passes both vertical and horizontal line test.

5) (1,6), (3,2) (4,1), (6,5)

6)





7) Shift the graph of f right 14 units and reflect across the x-axis

8) $y = x^2 + 20x + 91$

9) $\left(1, \frac{1}{16}\right)$

10) $f(x) = \sqrt{-x}$

11) $f^{-1}(x) = \frac{4x-7}{9x+3}$

12) Show how $f(g(x)) = x$ and $g(f(x)) = x$

Find the inverse of the function.

11) $f(x) = \frac{-3x-7}{9x-4}$

Confirm that f and g are inverses.

12) $f(x) = x^3 + 5$ and $g(x) = \sqrt[3]{x-5}$