

Name _____



Date _____

Relations and Functions

Identify the transformation from $f(x)$ to $g(x)$.

1. $f(x) = x^2$ $g(x) = (6x)^2$	2. $f(x) = x^2$ $g(x) = (-x)^2$
3. $f(x) = x^2$ $g(x) = \left(\frac{1}{4}x\right)^2$	4. $f(x) = x^2$ $g(x) = (x + 6)^2$
5. $f(x) = x^2$ $g(x) = x^2 - 9$	6. $f(x) = x^2$ $g(x) = -(x - 7)^2$
7. $f(x) = x^2$ $g(x) = 8x^2 + 9$	8. $f(x) = x^2$ $g(x) = \frac{4}{7}\left(\frac{-1}{5}x\right)^2$
9. $f(x) = x^2$ $g(x) = \frac{-1}{4}x^2$	10. $f(x) = x^2$ $g(x) = \left(\frac{1}{7}x\right)^2 + 3$
11. $f(x) = x^2$ $g(x) = -4(2x)^2 - 4$	12. $f(x) = x^2$ $g(x) = -4x^2$
13. $f(x) = x^2$ $g(x) = -(6x)^2 - 2$	14. $f(x) = x^2$ $g(x) = \left(\frac{1}{9}x\right)^2$