

Evaluate the **Composite Functions** using the following.

$$f(x) = x^2 + 2$$

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

$$h(x) = x - 5$$

$$j(x) = \frac{x}{6}$$

1. $f(h(x))$

2. $g(f(x))$

3. $h(j(x))$

4. $f(h(5))$

5. $j(g(6))$

6. $h(j(24))$

7. $f(h(x+3))$

8. $f(j(12x^2))$

Evaluate the **POWER Functions** using the following.

$$f(x) = 3x^{-1} \text{ and } g(x) = 2x - 1$$

9. $f(g(x))$

10. $g(f(x))$

11. $f(f(x))$

Evaluate the **POWER Functions** using the following.

$$f(x) = 2x^{2/3} \text{ and } g(x) = 3x^{1/2}$$

12. $f(x) * g(x)$

13. $f(x) * f(x)$

14. $\frac{f(x)}{g(x)}$