

## Kiss My Grits Composite Functions

Find  $[g \circ h](x)$  and  $[h \circ g](x)$ .

$$\begin{aligned} 8. \quad g(x) &= 3x \\ h(x) &= x - 4 \end{aligned}$$

$$\begin{aligned} 9. \quad g(x) &= -8x \\ h(x) &= 2x + 3 \end{aligned}$$

$$\begin{aligned} 10. \quad g(x) &= x + 6 \\ h(x) &= 3x^2 \end{aligned}$$

$$\begin{aligned} 11. \quad g(x) &= x + 3 \\ h(x) &= 2x^2 \end{aligned}$$

$$\begin{aligned} 12. \quad g(x) &= -2x \\ h(x) &= x^2 + 3x + 2 \end{aligned}$$

$$\begin{aligned} 13. \quad g(x) &= x - 2 \\ h(x) &= 3x^2 + 1 \end{aligned}$$

If  $f(x) = x^2$ ,  $g(x) = 5x$ , and  $h(x) = x + 4$ , find each value.

$$14. f[g(1)]$$

$$15. g[h(-2)]$$

$$16. h[f(4)]$$

$$17. f[h(-9)]$$

$$18. h[g(-3)]$$

$$19. g[f(8)]$$

$$20. h[f(20)]$$

$$21. [f \circ (h \circ g)](-1)$$

$$22. [f \circ (g \circ h)](4)$$

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