

## Composition of Functions Practice

Use the functions below to complete the following composition problems.  
Show work!

$$f(x) = 8x - 44$$

$$g(x) = 4x^2 - 12$$

$$h(x) = \frac{x + 28}{4}$$

$$j(x) = -18x^3 + 24$$

$$k(x) = \frac{1x - 19}{2}$$

$$m(x) = \sqrt{x - 43}$$

1.  $f(g(x))$

2.  $k(f(x))$

3.  $m(f(x))$

4.  $h(j(x))$

5.  $h(f(x))$

6.  $k(j(x))$

7.  $f(h(x))$

8.  $f(k(x))$

9.  $g(m(x))$

10.  $k(g(x))$

11.  $m(j(x))$