

SM2-A HW #11-3 (Composition of Functions)

Evaluate each function.

1) $h(n) = n^2 - 2$; Find $h(-10)$

2) $k(a) = |a + 2|$; Find $k(0)$

3) $g(x) = x - 4$; Find $g(3 - x)$

4) $g(x) = 3x - 5$; Find $g(x + 2)$

5) $h(a) = 3a - 1$; Find $h(3 - a)$

6) $p(x) = 4x + 5$; Find $p(x - 2)$

7) For the following two functions, find $f(g(x))$

$f(x) = 2x - 2$

$g(x) = x - 2$

8) For the following two functions, find $f(g(x))$

$f(x) = x + 3$

$g(x) = x^2 - 1$

Perform the indicated operation.

9) $g(x) = x^2 - 5x$

$h(x) = 4x - 4$

Find $(g \circ h)(x)$

10) $f(x) = x - 3$

Find $(f \circ f)(x)$

11) $h(n) = n - 4$

$g(n) = n^2 - 2n$

Find $(h \circ g)(-9)$

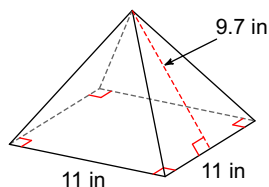
12) $g(a) = a - 2$

$h(a) = -2a^2 - 1$

Find $(g \circ h)(2)$

Find the surface area of each figure. Round your answers to the nearest hundredth, if necessary.

13)



14)

