

1) Find the domain of the function. $f(x) = \frac{5}{36 - x^2}$

2) Find the domain of the function. $f(x) = \sqrt{2 + x}$

3) Find the domain of the function. $f(x) = \frac{9}{15 - x}$

4) If $g(x) = -4x^2 + x - 9$, find $g(-2)$, $g(1)$, and $g(\frac{3}{2})$.

5) Let $p(x) = -4.4x + 44$ be a price-demand function. Determine the revenue function R .

6) Find functions f and g so that $h(x) = (f \circ g)(x)$. $h(x) = \sqrt{81x^2 + 31}$

Answer Key

Testname: WORKSHEET 1-1 FUNCTIONS

1) $x \neq \pm 6$

2) $x \geq -2$

3) $x \neq 15$

4) $-27, -12, -16.5$

5) $R(x) = -4.4x^2 + 44x$

6) $f(x) = \sqrt{x}, \quad g(x) = 81x^2 + 31$