



Finding the Range

Name _____

Score _____

DR:II:15

Find the range of each function.

<p>1) $f(x) = \frac{-x - 1}{5}$ Domain = $\{-21, -11, -6, 4, 9, 14\}$</p> <p>Range =</p>	<p>2) $f(x) = 4x^2 + 1$ Domain = $\{0, 1, 2, 5\}$</p> <p>Range =</p>
<p>3) $f(x) = 5x$ Domain = $\{-7, -6, -4, -2, -1\}$</p> <p>Range =</p>	<p>4) $f(x) = 6 - \frac{x}{3}$ Domain = $\{-27, -18, -15, -12, -9, -3\}$</p> <p>Range =</p>
<p>5) $f(x) = x^3 + x - 3$ Domain = $\{-2, -1, 0, 3\}$</p> <p>Range =</p>	<p>6) $f(x) = 2(x + 7)$ Domain = $\{-11, -9, -7, 0, 1, 4, 6\}$</p> <p>Range =</p>
<p>7) $f(x) = 8 - x$ Domain = $\{-9, -6, -4, 1, 5, 7, 8\}$</p> <p>Range =</p>	<p>8) $f(x) = -\frac{x}{4}$ Domain = $\{-20, -16, -12, 4, 8\}$</p> <p>Range =</p>



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Answer key

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Find the range of each function.

1) $f(x) = \frac{-x - 1}{5}$ Domain = $\{-21, -11, -6, 4, 9, 14\}$ Range = $\{-3, -2, -1, 0, 2, 4\}$	2) $f(x) = 4x^2 + 1$ Domain = $\{0, 1, 2, 5\}$ Range = $\{1, 5, 17, 101\}$
3) $f(x) = 5x$ Domain = $\{-7, -6, -4, -2, -1\}$ Range = $\{-35, -30, -20, -10, -5\}$	4) $f(x) = 6 - \frac{x}{3}$ Domain = $\{-27, -18, -15, -12, -9, -3\}$ Range = $\{7, 9, 10, 11, 12, 15\}$
5) $f(x) = x^3 + x - 3$ Domain = $\{-2, -1, 0, 3\}$ Range = $\{-13, -5, -3, 27\}$	6) $f(x) = 2(x + 7)$ Domain = $\{-11, -9, -7, 0, 1, 4, 6\}$ Range = $\{-8, -4, 0, 14, 16, 22, 26\}$
7) $f(x) = 8 - x$ Domain = $\{-9, -6, -4, 1, 5, 7, 8\}$ Range = $\{0, 1, 3, 7, 12, 14, 17\}$	8) $f(x) = -\frac{x}{4}$ Domain = $\{-20, -16, -12, 4, 8\}$ Range = $\{-2, -1, 3, 4, 5\}$