



Finding the Range

Name _____

Score _____

DR:II:14

Find the range of each function.

<p>1) $f(x) = \sqrt{2x} - 8$ Domain = $\{-8, 0, 2, 18\}$</p> <p>Range =</p>	<p>2) $f(x) = \frac{2x + 3}{3}$ Domain = $\{-18, -12, -9, -6\}$</p> <p>Range =</p>
<p>3) $f(x) = 5 - 3x$ Domain = $\{-7, -5, -4, -2, -1, 3\}$</p> <p>Range =</p>	<p>4) $f(x) = -7x$ Domain = $\{-4, -3, -1, 2, 5, 7\}$</p> <p>Range =</p>
<p>5) $f(x) = \frac{x}{2}$ Domain = $\{2, 4, 8, 12, 14, 18, 20\}$</p> <p>Range =</p>	<p>6) $f(x) = x + 4$ Domain = $\{-10, -5, 5, 6, 8, 9, 11\}$</p> <p>Range =</p>
<p>7) $f(x) = x^3 - x^2 - x + 4$ Domain = $\{-2, -1, 0, 2, 4\}$</p> <p>Range =</p>	<p>8) $f(x) = -3x^2 + 1$ Domain = $\{-5, -4, -2, -1, 3\}$</p> <p>Range =</p>



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Answer key

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Find the range of each function.

1) $f(x) = \sqrt{2x} - 8$ Domain = $\{-8, 0, 2, 18\}$ Range = $\{-4, -8, -6, -2\}$	2) $f(x) = \frac{2x + 3}{3}$ Domain = $\{-18, -12, -9, -6\}$ Range = $\{-11, -7, -5, -3\}$
3) $f(x) = 5 - 3x$ Domain = $\{-7, -5, -4, -2, -1, 3\}$ Range = $\{-4, 8, 11, 17, 20, 26\}$	4) $f(x) = -7x$ Domain = $\{-4, -3, -1, 2, 5, 7\}$ Range = $\{-49, -35, -14, 7, 21, 28\}$
5) $f(x) = \frac{x}{2}$ Domain = $\{2, 4, 8, 12, 14, 18, 20\}$ Range = $\{1, 2, 4, 6, 7, 9, 10\}$	6) $f(x) = x + 4$ Domain = $\{-10, -5, 5, 6, 8, 9, 11\}$ Range = $\{-6, -1, 9, 10, 12, 13, 15\}$
7) $f(x) = x^3 - x^2 - x + 4$ Domain = $\{-2, -1, 0, 2, 4\}$ Range = $\{-6, 3, 4, 6, 48\}$	8) $f(x) = -3x^2 + 1$ Domain = $\{-5, -4, -2, -1, 3\}$ Range = $\{-74, -47, -26, -11, -2\}$