

Name : _____

Domain and Range - Function

Write the range of each function for the given domain.

1) $f(x) = -x(2x + 9) - 3$

Domain = $\left\{-18, -7, -\frac{1}{6}, 0, \frac{3}{4}, 16\right\}$

Range : _____

2) $f(x) = x^3 + 5x^2 + 3x + 1$

Domain = $\{-10, -5, 0, 3, 8\}$

Range : _____

3) $f(x) = 7x^5 - x^4 + 9x^2 - 3x$

Domain = $\{-2, -1, 2\}$

Range : _____

5) $f(x) = \frac{1}{2}x^2 + 4x - 24$

Domain = $\{-20, -12, -9, -$

Range : _____

7) $f(x) = \sqrt{5x - 9}$

Domain = $\{5, 9, 18\}$

Range : _____

8) $f(x) = \frac{71 - x^2}{5}$

Domain = $\{-19, -16, -14, -11, 6, 9\}$

Range : _____

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Domain and Range - Function

Write the range of each function for the given domain.

1) $f(x) = -x(2x + 9) - 3$

Domain = $\left\{-18, -7, -\frac{1}{6}, 0, \frac{3}{4}, 16\right\}$

Range : $\{-489, -38, -\frac{14}{9}, -3, -\frac{87}{8}, -659\}$

2) $f(x) = x^3 + 5x^2 + 3x + 1$

Domain = $\{-10, -5, 0, 3, 8\}$

Range : $\{-529, -14, 1, 82, 857\}$

3) $f(x) = 7x^5 - x^4 + 9x^2 - 3x$

Domain = $\{-2, -1, 2\}$

Range : $\{-99, 3, 151, 681, 977\}$

5) $f(x) = \frac{1}{2}x^2 + 4x - 24$

Domain = $\{-20, -12, -9, -$

Range : $\{96, 0, -\frac{4}{81}, -\frac{13}{48}, -\frac{2}{3}\}$

7) $f(x) = \sqrt{5x - 9}$

Domain = $\{5, 9, 18\}$

Range : $\{4, 6, 9\}$

8) $f(x) = \frac{71 - x^2}{5}$

Domain = $\{-19, -16, -14, -11, 6, 9\}$

Range : $\{-58, -37, -25, -10, 7, -2\}$

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