

Name : _____

Domain and Range - Function

Write the range of each function for the given domain.

1) $f(x) = \frac{-9x - 2}{3}$

Domain = $\left\{-\frac{2}{3}, -\frac{1}{3}, 0, \frac{5}{6}\right\}$

Range : _____

2) $f(x) = (2x - 25)^2 - 78$

Domain = $\{-3, 1, 9, 12, 19\}$

Range : _____

3) $f(x) = \frac{2}{5}x^2 + 5x$

Domain = $\{-20, -15, 3, 5,$

$6, 7, 11\}$

Range : _____

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

Domain = $\{-10, -9, -6, 1,$

$\}$

Range : _____

7) $f(x) = 2\sqrt{(x-1)^2 + (x+12)}$

Domain = $\{-12, 4, 13\}$

Range : _____

8) $f(x) = -\frac{1}{4}x^5 - x^4 + x^3 - 7x + 90$

Domain = $\{-6, -4, -2, 4\}$

Range : _____

PREVIEW

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Domain and Range - Function

Write the range of each function for the given domain.

1) $f(x) = \frac{-9x - 2}{3}$

Domain = $\left\{-\frac{2}{3}, -\frac{1}{3}, 0, \frac{5}{6}\right\}$

Range : $\left\{\frac{4}{3}, \frac{1}{3}, -\frac{2}{3}, -\frac{19}{6}\right\}$

2) $f(x) = (2x - 25)^2 - 78$

Domain = $\{-3, 1, 9, 12, 19\}$

Range : $\{883, 451, -29, -77, 91\}$

3) $f(x) = \frac{2}{5}x^2 + 5x$

Domain = $\{-20, -15, 3, 5,$

$6, 7, 11\}$

Range : $\{60, 15$

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$7, -48, -120, -195, -895\}$

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

Domain = $\{-10, -9, -6, 1,$

$\}$

Range : $\{110, -720,$

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$\left\{\frac{27}{2}, 14, 19\right\}$

7) $f(x) = 2\sqrt{(x-1)^2 + (x+12)}$

Domain = $\{-12, 4, 13\}$

Range : $\{26, 10, 26\}$

8) $f(x) = -\frac{1}{4}x^5 - x^4 + x^3 - 7x + 90$

Domain = $\{-6, -4, -2, 4\}$

Range : $\{564, 54, 88, -386\}$