

Name : \_\_\_\_\_

L2S1

## Domain and Range - Function

Write the range of each function for the given domain.

1)  $f(x) = -x^5 - 3x^4 - x^3 + x^2 + x - 95$

Domain =  $\{-4, -3, -2, 2, 3\}$

Range : \_\_\_\_\_

2)  $f(x) = 9x^2 + \frac{2}{5}x + 1$

Domain =  $\{-10, -5, 1, 10\}$

Range : \_\_\_\_\_

3)  $f(x) = -2x^2 + x + 88$

Domain =  $\{-12, 0, 6, 11\}$

Range : \_\_\_\_\_

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$x + 5$   
 $\left\{0, \frac{1}{6}, \frac{5}{6}, 1\right\}$

5)  $f(x) = \frac{-3x^3 + 7x - 63}{7}$

Domain =  $\{-7, -3, -1, 1, 2\}$

Range : \_\_\_\_\_

$\{-11, 9, 13\}$

7)  $f(x) = 5 + 8x$

Domain =  $\left\{-\frac{5}{8}, -\frac{1}{4}, 0, \frac{1}{6}\right\}$

Range : \_\_\_\_\_

8)  $f(x) = \sqrt{-x^5 + x^3 + x^2}$

Domain =  $\{-5, -3, -1\}$

Range : \_\_\_\_\_

# Domain and Range - Function

Write the range of each function for the given domain.

1)  $f(x) = -x^5 - 3x^4 - x^3 + x^2 + x - 95$

Domain =  $\{-4, -3, -2, 2, 3\}$

Range :            **$\{237, -62, -101, -177, -596\}$**           

2)  $f(x) = 9x^2 + \frac{2}{5}x + 1$

Domain =  $\{-10, -5, 1, 10\}$

Range :            **$\{897, 224, \frac{52}{5}, 905\}$**           

3)  $f(x) = -2x^2 + x + 88$

Domain =  $\{-12, 0, 6, 11\}$

Range :            **$\{-212,$**

5)  $f(x) = \frac{-3x^3 + 7x - 63}{7}$

Domain =  $\{-7, -3, -1, 1, 2\}$

Range :            **$\{131, -\frac{3}{7}, -\frac{6}{7}$**

7)  $f(x) = 5 + 8x$

Domain =  $\{-\frac{5}{8}, -\frac{1}{4}, 0, \frac{1}{6}\}$

Range :            **$\{0, 3, 5, \frac{19}{3}\}$**           

8)  $f(x) = \sqrt{-x^5 + x^3 + x^2}$

Domain =  $\{-5, -3, -1\}$

Range :            **$\{55, 15, 1\}$**           

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$x + 5$

$\{0, \frac{1}{6}, \frac{5}{6}, 1\}$

           **$\{-\frac{29}{9}, 5, \frac{31}{6}, \frac{55}{18}, \frac{1}{6}\}$**           

$\{-11, 9, 13\}$

           **$\{1, 191, 23, 163, 287\}$**