

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

# Domain and Range - Function

Write the domain and range of each function.

1)  $f(x) = |6x^2 - 12| - 5$

2)  $f(x) = -|3x^3 - 3|$

Domain : \_\_\_\_\_

Domain : \_\_\_\_\_

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

\_\_\_\_\_

3)  $f(x) = \frac{-x}{\sqrt{x+5}}$

Domain : \_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

5)  $f(x) = \frac{1}{|x-6|}$

Domain : \_\_\_\_\_

Domain : \_\_\_\_\_

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

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

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Write the domain and range of each function.

1)  $f(x) = |6x^2 - 12| - 5$

2)  $f(x) = -|3x^3 - 3|$

Domain : \_\_\_\_\_  $(-\infty, \infty)$

Domain : \_\_\_\_\_  $(-\infty, \infty)$

Range : \_\_\_\_\_  $[-5, \infty)$

Range : \_\_\_\_\_  $(-\infty, 0]$

3)  $f(x) = \frac{-x}{\sqrt{x+5}}$

Domain : \_\_\_\_\_  $(-5, \infty)$

Domain : \_\_\_\_\_  $(-\infty, \infty)$

Range : \_\_\_\_\_  $(-\infty, \infty)$

Range : \_\_\_\_\_  $(-\infty, \infty)$

5)  $f(x) = \frac{1}{|x-6|}$

Domain : \_\_\_\_\_  $(-\infty, 6) \cup (6, \infty)$

Domain : \_\_\_\_\_  $(-\infty, -2] \cup [2, \infty)$

Range : \_\_\_\_\_  $(0, \infty)$

Range : \_\_\_\_\_  $[7, \infty)$

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