

Get out your review

Review Functions – Interval Notation and Set Notation.

1) Given $m(x) = -3x^2 + 5x - 4$, find $m(-2)$.

Start on problem # 4.

$$m(-2) = -3(-2)^2 + 5(-2) - 4$$

$$-3(-2)^2 + 5(-2) - 4$$

-26

2) Given $f(3.7) = 6$, **3.7** is the input and **6** is the output.

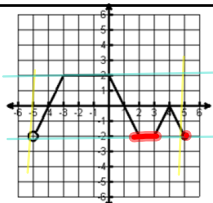
3) If $g(x) = 3x - 8$, and $g(x) = 7$, find x .

$$7 = 3x - 8$$

$$+8 \quad +8$$

$$15 = 3x$$

$$5 = x$$



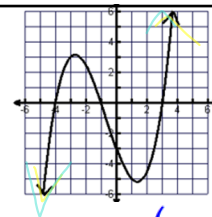
State the domain and range in interval and set notation.

4) Interval Domain: **$(-5, 5]$** _____

Range: **$[-2, 2]$** _____

Set Domain: **$\{x : -5 < x \leq 5\}$** _____

Range: **$\{y : -2 \leq y \leq 2\}$** _____



5) Interval Domain: **$(-\infty, \infty)$** _____

Range: **$(-\infty, \infty)$** _____

Set Domain: **$\{x : x \in \mathcal{R}\}$** _____

Range: **$\{y : y \in \mathcal{R}\}$** _____

6) Interval Domain: $(-\infty, \infty)$ _____
 Range: $[-3, \infty)$ _____
 Set Domain: $\{x: x \in \mathbb{R}\}$ _____
 Range: $\{y: y \geq -3\}$ _____

7) Interval Domain: $(-\infty, 5)$ _____
 Range: $[0, \infty)$ _____
 Set Domain: $\{x: x < 5\}$ _____
 Range: $\{y: y \geq 0\}$ _____

8) Given

x	-3	2	6	9
y	6	8	4	-3

Find $f(-3) = 6$ _____
 If $f(x) = 6$, then $x = -3$ _____

9) Given:

State the set of ordered pairs. $\{(-3, 0), (-3, 2), (1, 2)\}$
 Domain: $\{-3, 1\}$ _____
 Range: $\{0, 2\}$ _____
 Inverse: $\{(0, -3), (2, -3), (2, 1)\}$ _____