Polynomials Post Test

Calendar Math

3.1 Part 1 Domain and Range

Objective: Demonstrate understanding of finding the Domain and Range of the given graphs.

Oct 9-2:59 PM

Post Test Review Questions

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$$7\sqrt{175x^3}$$

$35\text{(5)} \otimes x$

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$$7.5 \cdot x \sqrt{7x}$$

$$35x\sqrt{7x}$$

Oct 9-3:01 PM

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2 $6x^3 - 2x^2 + 4x - 1 - ? =$

$$3x^3 + 2x^2 - x + 3$$

$$6x^3 - 3x^3 = 3x^3$$

$$-2x^2 - 2x^2 = -4x^2$$

$3x^3 - 4x^2 + 5x \cdot 4$

$$4x - (-x) = 5x$$

$$-1 - 3 = -4$$

Oct 10-11:43 AM

Calendar Math

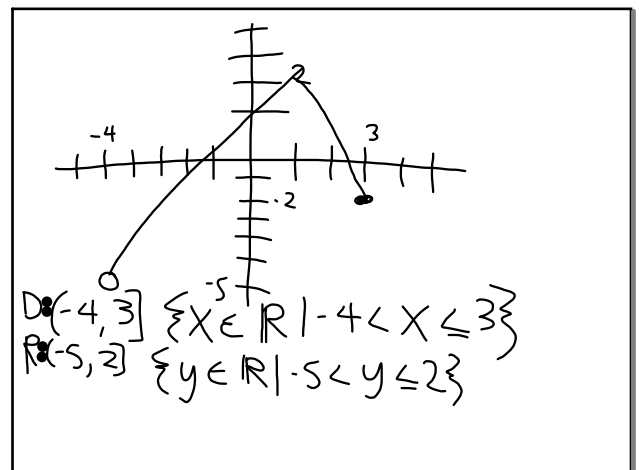Oct 9-3:01 PM

3.1 Part 1 Domain and Range

Domain: Domain of a function is the set of x-values that make that function true.

$+ \!\!\!\!\!+ \;$ x

Range: Range of a function is the set of y-values that make that function true.
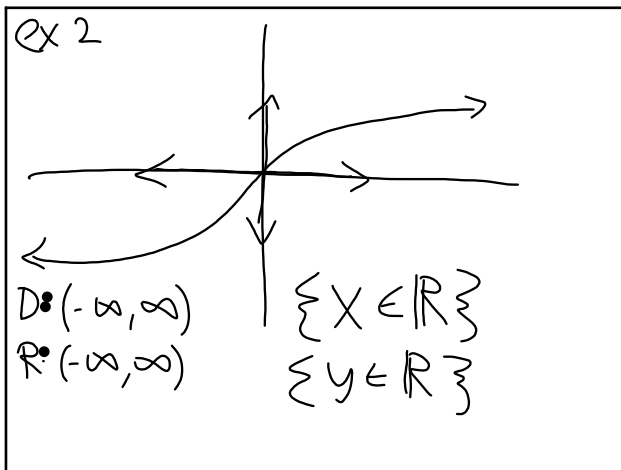
$\;^{|y}$
$+\!\!\!\!+$

Interval Notation:

Closed dot or point on the graph

[ ]

Open dot or $\rightarrow$ arrow

( )

Set notation.   such that restriction

$\{X \in \mathbb{R} \text{ or } \mathbb{Z} \mid \# \leq X \leq \# \}$

real #s   integers
fractions   no fractions

$\{X \in \mathbb{R} \} \; -\infty, \infty$

$\{y \in \mathbb{R} \text{ or } \mathbb{Z} \mid \# \leq y \leq \# \}$
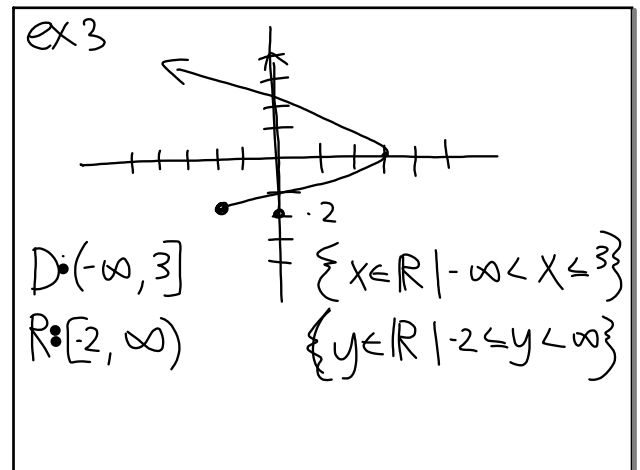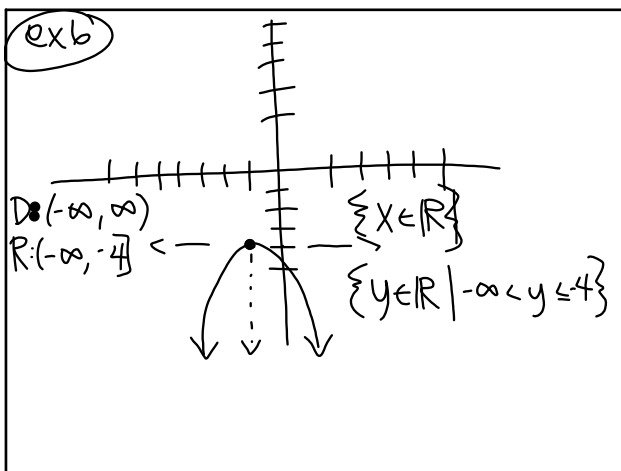
$\{y \in \mathbb{R} \} \; -\infty, \infty$

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$D: (-4, 3] \quad \{X \in \mathbb{R} \mid -4 < X \leq 3\}$

$R: (-5, 2] \quad \{y \in \mathbb{R} \mid -5 < y \leq 2\}$

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ex 2

D: $(-\infty, \infty)$

R: $(-\infty, \infty)$

$\{X \in \mathbb{R}\}$

$\{y \in \mathbb{R}\}$

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ex 3

D: $(-\infty, 3]$ $\{x \in \mathbb{R} \mid -\infty < X \le 3\}$

R: $[-2, \infty)$ $\{y \in \mathbb{R} \mid -2 \le y < \infty\}$

$\cdot 2$

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ex 6

D: $(-\infty, \infty)$

R: $(-\infty, -4]$ $\{X \in \mathbb{R}\}$

$\{y \in \mathbb{R} \mid -\infty < y \le 4\}$

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$$P = r - c$$

Production = revenue − cost

R: $[3]$

$\{y \in \mathbb{R} \mid y = 3\}$

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