Name: _____

Date: _____

1. Solve: $\frac{2(x-7)}{x^2+3x-28} + \frac{x-2}{x-4} = \frac{x+3}{x+7}$

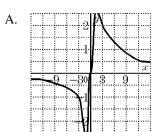
2. Graph the following. Be sure to label important points.

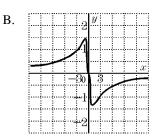
$$g(x) = \frac{1}{x^2 + 4x - 5}$$

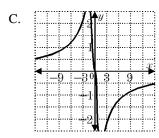
3. If Chad can paint 4 rooms in 6 hours and Cierra can do it in 10 hours, then how many hours would it take them working together?

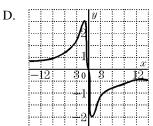
- 4. Paul can plant his wheat crop in 10 days. His daughter can do it in 15 days. How many days will it take if they work together?
 - A. 7.5
- B. 7
- C. 6
- D. 8

5. Which of the following represents the graph of $y = \frac{-8x}{x^2 + 1}$?





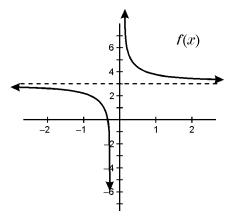




6. Solve for x: $\frac{1}{2x-3} = \frac{5}{4x+1}$

7. Solve: $\frac{2}{x^2 - 1} + \frac{1}{1 - x} = 0$

8. What value(s) are restricted from the range of f(x)?



- A. 1
- B. 0
- C. 3
- D. there are no restricted values

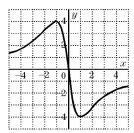
9. Which of the following is the equation of an asymptote for the function graphed?

A.
$$x = 0$$

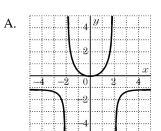
B.
$$y = 0$$

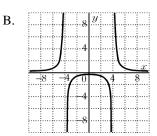
C.
$$x = -4$$

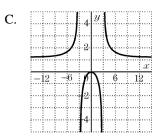
D.
$$x = 4$$

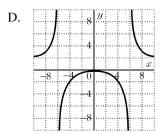


10. Which of the following represents the graph of $y = -\frac{x^2}{r^2 - 4}$?









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Unit 7 Quiz 2 Review

11/30/2015

1.

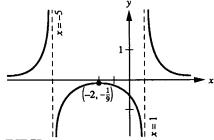
Answer:

A.REI.2

2.

Answer:

Objective:



Objective:

F.IF.7D

3.

Answer: 3.75 hours

Solving applications of rational equations Objective:

4.

Answer: \mathbf{C}

5.

C Answer:

Objective: F.IF.7D

6.

Answer:

 $\begin{array}{c} 2\frac{2}{3} \\ A.REI.2 \end{array}$ Objective:

7.

Ø Answer:

Objective: A.REI.2

8.

C Answer: Objective: F.IF.5

9.

Answer: В

F.IF.7D Objective:

10.

Answer: A

Objective: F.IF.7D