

Daily Agenda

Learning Targets:

- I can simplify rational expressions.
- I can solve rational equations.
- I can graph rational functions.

Homework
Unit 5 Review

Assessments
Unit 5 Test 12/1

Failure is not fatal, but failure to change might me.
-John Wooden

Nov 15-8:24 PM

Simplify

$$\frac{x-2}{x^2-x-2} + \frac{x-4}{x^2-5x+4}$$

$$\frac{(x-2)(x+1)}{(x-2)(x+1)} + \frac{(x-1)(x+1)}{(x-1)(x+1)}$$

$$\frac{x-1 + x+1}{(x-1)(x+1)} = \frac{2x}{(x-1)(x+1)}$$

Nov 30-10:31 AM

Solve for x.

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

D: $x \neq \pm 2$

$$\left(\frac{2}{x+2} + \frac{x}{x-2} = \frac{x^2+4}{(x+2)(x-2)} \right) (x+2)(x-2)$$

$$2(x-2) + x(x+2) = x^2 + 4$$

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

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

$$4x = 8 \quad x = 2$$

no solution
2 is extraneous

Nov 15-8:30 PM