A rational expression

$$\frac{3n^3 - 12n^2 - 180n}{8n^3 + 64n^2 + 96n}$$

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ExamView

Solve the equation. Check the solution.

$$\frac{d+8}{d-1} = \frac{d+4}{d-4}$$
a. $\frac{65}{2}$

7 65

 $-\frac{47}{7}$

ExamView

Solve the equation. Check the solution.

$$\frac{2}{x-5}=\frac{3}{x+1}$$

$$-\frac{19}{2}$$

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ExamView

Solve the equation. Check the solution.

$$\frac{7}{n} + \frac{2}{3n} = 3$$
a.
$$\frac{13}{9}$$

3 23

9

d.
$$\frac{3}{4}$$



your answers to the nearest tenth, if necessary. downstream 4 miles/hour faster than she rows upstream. Find Alicia's rowing rate each way. Round Alicia can row 4 miles downstream in the same time it takes her to row 2 miles upstream. She rows

- 5 mi/h downstream, 1 mi/h upstream
- 5.3 mi/h downstream, 1.3 mi/h upstream
- 4 mi/h downstream, 8 mi/h upstream
- d. 8 mi/h downstream, 4 mi/h upstream

ExamView 1

used to find the two integers. Find the two integers. The sum of the reciprocals of two consecutive even integers is $\frac{9}{40}$. Write an equation that can be

a.
$$t + (t + 2) = \frac{9}{40}$$
; 8 and 10

c.
$$t + (t + 2) = \frac{9}{40}$$
; 6 and 8

b.
$$\frac{1}{t} + \frac{1}{t+2} = \frac{9}{40}$$
; 6 and 8

c.
$$t + (t+2) = \frac{1}{40}$$
; 6 and 8
d. $\frac{1}{t} + \frac{1}{t+2} = \frac{9}{40}$; 8 and 10



4 hours. Paulo can paint the same room in 8 hours. Write an equation that can be used to find how are putting the finishing touches on a house they built. Working alone, Irina can paint a certain room in A group of college students are volunteering for Help the Homeless during their spring break. They the room? If necessary, round your answer to the nearest hundredth. long it will take them working together to paint the room. How many hours will it take them to paint

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1.
$$\frac{x}{4} + \frac{x}{8} = 1$$
; 2.67 hours

c.
$$\frac{x}{8} + \frac{x}{4} = 1$$
; 6 hours

b.
$$\frac{4}{x} + \frac{8}{x} = 1$$
; 6 hours

d.
$$\frac{4}{x} + \frac{8}{x} = 1$$
; 12 hours

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ExamView

What are the solutions of the rational equation? Use a graphing calculator to solve.

$$\frac{12.3}{x+8.5} = \frac{-2}{x-2}$$

b. -2.269