



*Check add, subtract, multiply, and divide ws

8.6 Solving Rational Functions Solve for x and then check for extraneous solutions.





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8.6 Solving Rational Functions What is Least Common Dominator (LCD)?

a)
$$Y \cdot 5 + 7 \cdot x$$

 $Y \cdot x + 7 \cdot x$
 $Y \cdot x + 7 \cdot x$
 $\frac{90 + 7x}{7x} = 7 \cdot x$



c) $\frac{5a^2}{4b^3c} + \frac{3c}{6a^2b}$





8.6 Solving Rational Functions

Solve the equation by using the LCD. Check for extraneous solutions.



Solving Fix
$$\# 1-6$$

 $\frac{4}{-\lambda-2} - \frac{3}{-\lambda+1} = \frac{8}{(-\lambda)^{2}+2} - \lambda$
 $\frac{4}{-\lambda-2} - \frac{3}{-\lambda+1} = \frac{8}{(-\lambda)^{2}+2} - \lambda$
 $\frac{4}{-\lambda} - \frac{3}{-1} = \frac{8}{4}$
 $\frac{4}{-4} - \frac{3}{-1} = \frac{8}{4}$
 $-1 + 3 = 2$
 $\frac{4}{-\lambda} - \frac{3}{-1} = \frac{8}{4}$
 $-1 + 3 = 2$
 $\frac{4}{-\lambda} - \frac{3}{-1} = \frac{8}{4}$
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 $\frac{4}{-\lambda} - \frac{3}{-1} = \frac{8}{4}$
 $-1 + 3 = 2$
 $\frac{4}{-\lambda} - \frac{3}{-1} = \frac{8}{4}$

8.6 Solving Rational Functions

Solve the equation by using the LCD. Check for extraneous solutions.

5. $\frac{7}{2} + \frac{3}{x} = 3$ 6. $\frac{2}{x} + \frac{4}{3} = 2$ 7. $\frac{3}{7} + \frac{8}{x} = 1$ 8. $\frac{3}{2} + \frac{4}{x-1} = \frac{x+1}{x-1}$ 9. $\frac{3x}{x+1} - \frac{5}{2x} = \frac{3}{2x}$ 10. $\frac{5x}{x-2} = 7$

HW: Page 593#9-12, 15-25 odd, 33, 34

*WS-odds

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https://teacher.desmos.com/polygraph-rationals

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