

November 27, 2017
 * Exam #3 - December 6
 * Final Exam - Monday
 December 11
 10:20 - 12:20

Nov 27-9:52 AM

7.4 Solving Rational Equations

#3) $\frac{1}{3x^2} = \frac{x+3}{2x^2} - \frac{1}{6x^2}$ *Steps*
 ① find LCD $6x^2$
 ② Clear fraction by Distributing LCD.

$$\left[\frac{1}{3x^2} \cdot \frac{2}{2} \right] = \left[\frac{x+3}{2x^2} \cdot \frac{3}{3} \right] - \left[\frac{1}{6x^2} \cdot \frac{1}{1} \right]$$

$$2 = 3x + 9 - 1$$

OK

$$2 = 3x + 8$$

$$-6 = 3x$$

$$\boxed{-2 = x}$$

$$\frac{1}{3(2)^2} = \frac{(-2)+3}{2(-2)^2} - \frac{1}{6(-2)^2}$$

$$\frac{1}{12} = \frac{1}{8} - \frac{1}{24}$$

$$= \frac{3}{24} - \frac{1}{24}$$

$$= \frac{2}{24}$$

$$\frac{1}{12} = \frac{1}{12} \checkmark$$

Nov 27-10:10 AM

#9) $\frac{6b+18}{b^2} + \frac{1}{b} = \frac{3}{b}$

Nov 27-10:30 AM