

October 4, 2017

flat $\frac{1}{2m^2} + \frac{5}{2m} = \frac{(m-2)}{m^2}$ LCD: $2m^2$

$$\begin{aligned} & 1 + 5m = 2(m-2) \\ & 1 + 5m = 2m - 4 \\ & -1 - 2m = -4 \\ & 3m = -5 \\ & m = -\frac{5}{3} \end{aligned}$$

Oct 4-8:51 AM

$$\begin{aligned} m &= -\frac{5}{3} \quad \frac{1}{2m^2} + \frac{5}{2m} = \frac{m-2}{m^2} \\ \frac{1}{2(-\frac{5}{3})^2} + \frac{5}{2(-\frac{5}{3})} &= \frac{(-\frac{5}{3})-2}{(-\frac{5}{3})^2} \\ \frac{1}{\frac{2(25)}{9}} + \frac{5}{-\frac{10}{3}} &= \frac{\frac{-5-6}{3}}{\frac{-5-10}{9}} \\ \frac{1}{\frac{50}{9}} + \frac{5}{-\frac{10}{3}} &= \frac{-11}{-15} \\ \left[\frac{1}{50} \cdot \frac{9}{50} \right] + \left[\frac{5}{1} \cdot \frac{3}{10} \right] &= \left[-\frac{11}{15} \cdot -\frac{3}{10} \right] \\ \frac{9}{50} - \frac{3}{2} &= \frac{11}{10} \\ \frac{9}{50} - \frac{15}{50} &= \frac{11}{10} \\ -\frac{6}{50} &= \frac{11}{10} \\ -\frac{3}{25} &= \frac{11}{10} \end{aligned}$$

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$$\begin{aligned} \frac{1}{2(-\frac{5}{3})^2} + \frac{5}{2(-\frac{5}{3})} &= \frac{(-\frac{5}{3})-2}{(-\frac{5}{3})^2} \\ \frac{1}{\frac{50}{9}} + \frac{5}{-\frac{10}{3}} &= \frac{\frac{-5-6}{3}}{\frac{-5-10}{9}} \\ \frac{1}{50} + \frac{5}{-10} &= \frac{-11}{-15} \\ \frac{1}{50} + \frac{5}{-10} &= \frac{11}{15} \\ \frac{1}{50} + \left(-\frac{1}{2} \right) &= -\frac{33}{25} \\ \frac{9}{50} + \left(-\frac{75}{50} \right) &= -\frac{33}{25} \\ -\frac{66}{50} &= -\frac{33}{25} \\ -\frac{33}{25} &= -\frac{33}{25} \checkmark \end{aligned}$$

Oct 4-9:24 AM

flat $\frac{1}{3x^2} = \frac{x+3}{2x^2} - \frac{1}{6x^2}$ LCD: $6x^2$

$$\begin{aligned} 2 &= 3(x+3) - 1 \\ 2 &= 3x + 9 - 1 \\ 2 &= 3x + 8 \\ -6 &= 3x \\ -2 &= x \end{aligned}$$

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$$\begin{aligned} x &= -2 \\ \frac{1}{3(-2)^2} &= \frac{(-2)+3}{2(-2)^2} - \frac{1}{6(-2)^2} \end{aligned}$$

Oct 4-9:36 AM

flat $x \left[\frac{x-6}{x} \right] = \frac{x+4}{x} + 1$ LCD: x

$$\begin{aligned} x-6 &= x+4+x \\ x-6 &= 2x+4 \\ -x-4 &= x-4 \\ -10 &= x \end{aligned}$$

Oct 4-9:45 AM