

December 5, 2017

#8) $\left(\frac{1}{2m^2} + \frac{5}{2m} = \frac{m-2}{m^2}\right) 2m^2$

$$1 + 5m = 2m - 4$$

$$3m = -5$$

$$m = -\frac{5}{3}$$

$$\frac{1}{2\left(-\frac{5}{3}\right)^2} + \frac{5}{2\left(-\frac{5}{3}\right)} = \frac{\left(-\frac{5}{3}\right) - 2}{\left(-\frac{5}{3}\right)^2}$$

$$\frac{1}{2\left(\frac{25}{9}\right)} - \frac{5}{\frac{10}{3}} = \frac{-5-6}{\frac{25}{9}}$$

$$\frac{1}{\frac{50}{9}} + \left[\frac{3}{1} \cdot \frac{3}{10}\right] = \frac{-11}{\frac{25}{9}}$$

$$\frac{1 \cdot 9}{50} - \frac{3}{2} = \left[\frac{-11}{25} \cdot \frac{9}{25}\right]$$

$$\frac{9}{50} - \frac{3}{2} = -\frac{33}{25}$$

$$\frac{9 - 75}{50} = -\frac{33}{25}$$

$$-\frac{66}{50} = -\frac{33}{25}$$

$$-\frac{33}{25} = -\frac{33}{25} \checkmark$$

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#9) $\frac{x-4}{3x^2-12x} = \frac{\cancel{x-4}}{3x(\cancel{x-4})}$

$$= \frac{1}{3x}$$

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$\tilde{P} \tilde{P} \tilde{P}$

$$\frac{a}{b} \cdot \frac{c}{c} = \frac{ac}{bc} = \frac{a}{b}$$

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#14) $\frac{v^2-7v-30}{v^2-5v-24}$

$$\frac{(v-10)(v+3)}{(v-8)(v+3)} = \frac{v-10}{v-8}$$

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#14) $\sqrt[2]{28x^3y^3}$

$$\sqrt{28} \cdot \sqrt{x^2 \cdot x} \cdot \sqrt{y^2 \cdot y}$$

$$\sqrt{4} \cdot \sqrt{7} \cdot x\sqrt{x} \cdot y\sqrt{y}$$

$$2\sqrt{7}$$

$$2xy\sqrt{7xy}$$

Dec 5-9:20 AM

$$\sqrt[2]{x^2} = x$$

$$\sqrt[2]{x^3} = \sqrt{x \cdot x \cdot x}$$

$$\frac{3}{2} = 1$$

$$= x \cdot \sqrt{x}$$

$$= x\sqrt{x}$$

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$$\sqrt[2]{y^{19}} = \sqrt{y^{18} \cdot y}$$

$$\frac{19}{2} = 9$$

$$= y^9 \sqrt{y}$$

Dec 5-9:25 AM

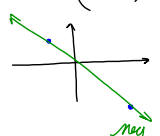
#5) $-\frac{70m^2}{28m} = -\frac{35m}{14}$

$$= -\frac{5m}{2} \leftarrow R.P.$$

Dec 5-9:27 AM

$(x_1, y_1) \neq (x_2, y_2)$

$(-3, 5) \neq (8, -11)$



$$m = \frac{(-11) - (5)}{(8) - (-3)}$$

$$= \frac{-16}{11}$$

$$5 = -\frac{16}{11}(-\frac{3}{1}) + b$$

$$5 = \frac{48}{11} + b$$

$$\frac{5}{1} - \frac{48}{11} = b$$

$$\frac{55-48}{11} = b$$

$$\frac{7}{11} = b$$

$$y = -\frac{16}{11}x + \frac{7}{11}$$

$$11y = -16x + 7$$

$$16x + 11y = 7$$

$$16(8) + 11(-11) = 7$$

$$128 - 121 = 7$$

$$7 = 7 \checkmark$$

Dec 5-9:32 AM

$$2m \left(\frac{4}{m} + \frac{1}{2} = 8 \right)$$

$$8 + m = 16m$$

$$8 = 15m$$

$$\frac{8}{15} = m$$

$$\frac{4}{\frac{8}{15}} + \frac{1}{2} = 8$$

$$\frac{1}{1} \cdot \frac{15}{8} + \frac{1}{2} = 8$$

$$\frac{15}{2} + \frac{1}{2} = 8$$

$$\frac{15+1}{2} = 8$$

$$\frac{16}{2} = 8$$

$$8 = 8 \checkmark$$

Dec 5-9:40 AM