


October 19, 2016

$(-\frac{3}{4}, 5) \neq (2, \frac{1}{5})$



$$m = \frac{(\frac{1}{5}) - (5)}{(2) - (-\frac{3}{4})}$$

$$= \frac{\frac{1-25}{5}}{\frac{8+3}{4}}$$

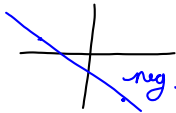
$$= \frac{-\frac{24}{5}}{\frac{11}{4}}$$

$$= -\frac{24}{5} \cdot \frac{4}{11}$$

$$= -\frac{96}{55}$$

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$(3, -5) \neq (-7, 2)$



$$m = \frac{(2) - (-5)}{(-7) - (3)}$$

$$= \frac{7}{-10} = -\frac{7}{10}$$

$$-5 = \left[-\frac{7}{10} \cdot \frac{3}{1}\right] + b$$

$$-5 = -\frac{21}{10} + b$$

$$-50 = -21 + 10b$$

$$-29 = 10b$$

$$-\frac{29}{10} = b$$

$$y = -\frac{7}{10}x - \frac{29}{10}$$

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$$-3 - 7 = (-3) + (-7)$$

$$= -10$$

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$(-8, 2) \neq (5, -7)$

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Negative Exponent Rules

① $\frac{a^{-n}}{1} = \frac{1}{a^{+n}}$

② $\frac{1}{a^{-n}} = \frac{a^{+n}}{1} = a^n$

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① $5^{-3} = \frac{1}{5^3} = \frac{1}{125}$

② $\frac{1}{5^{-3}} = \frac{5^3}{1} = \frac{125}{1} = 125$

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$$\frac{x^6 y^{-2}}{x^{-3} y^{-1}} = \frac{x^6 \cdot x^3 \cdot y^1}{x^3 \cdot y^2} = \frac{x^6 \cdot y^1}{y^2} = \frac{x^6}{y}$$

$\frac{x^6}{x^{-3}} = x^{6-(-3)} = x^9$ (Fraction Rule)
 $\frac{x^6}{x^{-3}} = x^6 \cdot x^3 = x^9$ (Neg. Exp. Rule, Product)

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