February 5, 2016

$9-(12-11)^8+4$

$9-(1)^8+4$

$9-1+4$

$8+12=12$

Feb 5-9:04 AM

#4) $3x^2-2y^2$; $x=-3$, $y=-2$

$3(-3)^2-2(-2)^2$

$3(-3)(-3)-2(-2)(-2)$

$(-9)(-3)-2(-2)(-2)$

$27-2(-2)(-2)$

$27+4(-2)$

$27-8$

19

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$3(-3)^2-2(-2)^2$

$3(9)-2(4)$

$27-8$

19

$-8-|5-11|$

$-8-|-6|$

$-8-(6)$

$-8-6 \rightarrow -8+(-6)=-14$

adding same sign

Feb 5-9:11 AM

② Alternate form of Division

$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \cdot \frac{d}{c} = \frac{ad}{bc}$ (K ÷ C F)

Complex Fraction $\frac{\frac{a}{b}}{\frac{c}{d}} = \frac{a}{b} \cdot \frac{d}{c} = \frac{ad}{bc}$ (K, C, F)

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$\frac{\frac{7}{8}}{\frac{3}{5}} = \frac{7}{8} \cdot \frac{5}{3} = \frac{35}{24}$ (K, C, F)

$\frac{\frac{1}{6}}{\frac{5}{1}} = \frac{1}{6} \cdot \frac{1}{5} = \frac{1}{30}$

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③ Addition (Subtraction) with Like Denominators

$\frac{a}{b} \pm \frac{c}{b} = \frac{a \pm c}{b}$

Like or Common Denominator

$\frac{1}{7}+\frac{3}{7}=\frac{1+3}{7}=\frac{4}{7}$

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(4) Addition with Unlike Denominators

$$\frac{a}{b} \pm \frac{c}{d} = \frac{ad \pm bc}{bd}$$

unlike Denominators

FPF

$$\frac{a}{b} \cdot \frac{d}{d} = \frac{ad}{bd}$$

$$\frac{c}{d} \cdot \frac{b}{b} = \frac{cb}{bd}$$

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$\frac{11}{11} \cdot \frac{5}{7} - \frac{3}{11} \cdot \frac{7}{7} = \frac{55-21}{7 \cdot 11} = \frac{34}{77}$

Least Common Denominator (LCD)

$$\frac{5}{12} + \frac{1}{3} = \frac{5+4}{12} = \frac{9}{12} = \frac{3}{4}$$

$$\frac{1}{3} \cdot \frac{4}{4} = \frac{4}{12}$$

$$\frac{5}{12} + \frac{1}{3} = \frac{15+12}{36} = \frac{27}{36} = \frac{3}{4}$$

$$\frac{5}{12} \cdot \frac{3}{3} = \frac{15}{36}$$

$$\frac{1}{3} \cdot \frac{12}{12} = \frac{12}{36}$$

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$$\frac{\frac{1}{2} + \frac{1}{5}}{7}$$

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Cole 1.3

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