Friday the 13th

#4) $(x)(y) = 0$

multiplication by zero.

① $(0)(y) = 0$

② $(x)(0) = 0$

③ $(0)(0) = 0$

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#2) $-5(-3+8) = (-5)(-3) + (-5)(8)$

$= 15 + (-40)$

$= -25$

#3) $(-5)(11) + (-7)(3)$

$-55 + (-21)$

-76

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#5) $|-5|^2 - 2(3 - |-9|) - (-2)$

$|-5|^2 - 2(3 + (-9)) - (-2)$

$|-5|^2 - 2(-6) - (-2)$

$(5)^2 - 2(-6) - (-2)$

$25 \left[-2(-6)\right] - (-2)$

$25 + 12 \left[-(-2)\right]$

$25 + 12 + 2$

$37 + 2$

$\boxed{39}$

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Fractions!

Proper $\frac{5}{7}$ of some whole $\boxed{\frac{7}{7} = 1}$

Improper $\frac{9}{7} = \boxed{1\frac{2}{7}}$ ← mixed fraction

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Fundamental Principle of Fractions

$\frac{a}{b} \cdot \boxed{\frac{c}{c}} = \frac{a}{b} \cdot 1 = \frac{a}{b}$

$\boxed{\frac{c}{c}}$ a "one" $= 1$

① $\frac{6}{12} = \frac{\boxed{2} \cdot 3}{\boxed{2} \cdot \boxed{2} \cdot 3} = 1 \cdot \frac{1}{2} \cdot 1$

$= \frac{1}{2}$

Feb 13-9:38 AM