

February 1, 2016

1.2 #48)  $3x^2 + 3xy - 5y^2$   
 $x=0 \quad y=3$

$$3(0)^2 + 3(0)(3) - 5(3)^2$$

$$3(0) + (0)(3) - 5(9)$$

$$0 + 0 - 45$$

$$\boxed{-45}$$

$\boxed{(3)(0)(3)}$   
 $\boxed{(0)(3)}$   
 0

Feb 1-9:50 AM

1.2 #39  $| 6 \quad -15 \quad | \quad - \quad | -17 \quad -11 \quad |$

$| -9 \quad - \quad | \quad -28 \quad |$

$\boxed{9 \quad - \quad 28}$   
 $\boxed{-19}$

$- \quad | \quad -2 \quad | \quad \neq \quad - \quad (-2)$   
 $(-1) \cdot | -2 \quad | \quad \neq \quad (-1) \cdot (-2)$   
 $(-1) \cdot 2 \quad \neq \quad 2$   
 $-2 \quad \neq \quad 2$

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1.2 #61)  $\frac{a+b}{c-d}$   
 $a=-42 \quad b=25 \quad c=26 \quad d=43$

$$\frac{(-42) + (25)}{(26) - (43)} = \frac{-17}{-17} = 1$$

Feb 1-10:17 AM

1.2 #77)  $K = \frac{1}{2}mv^2$   
 $m=7, \quad v=50 \text{ meters}$

$$K = \frac{1}{2}(7)(50)^2$$

$$= \frac{1}{2}(7)(2500)$$

$$= \frac{7 \cdot 2500}{2}$$

$$K = 7 \cdot 1250$$

$$= 8,750$$

Feb 1-10:20 AM

\* Quiz #3 - Wednesday

① 1.2  
 ② Prior

Feb 1-10:25 AM

Fractions

$\frac{5}{6}$  numerator of some whole  
 denominator

$\boxed{\frac{1}{6} \quad \frac{1}{6} \quad \frac{1}{6} \quad \frac{1}{6} \quad \frac{1}{6} \quad \frac{1}{6}} = \frac{6}{6} = 1$

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Fundamental Principle of Fractions

$$\frac{a}{b} \cdot \frac{c}{c} = \frac{ac}{bc} = \frac{a}{b} \cdot 1 = \frac{a}{b}$$

"on"

Equivalent fractions

$$\frac{1}{2} \cdot \frac{11}{11} = \frac{11}{22}$$

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Divide out ones

$$\frac{18}{56} = \frac{2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 7} = \frac{9}{28}$$

18: 2, 9; 9: 3, 3

56: 2, 28; 28: 2, 14; 14: 2, 7

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$$\frac{144}{398} = \frac{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3}{2 \cdot 199} = \frac{72}{199}$$

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$$\frac{16x^4y^3}{40x^5y^4}$$

2 2 2 2 x x x x y y y

2 2 2 5 x x x x x y y y y

$$\frac{2}{5x^2y}$$

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