

September 21, 2015

* Exam #1 - Wednesday

80% Concepts

20% Doing

$$\begin{array}{l} -(-5) \neq -|-5| \\ (-1) \cdot (-5) \quad (-1) \cdot 5 = -5 \end{array}$$

grouping symbol

5

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#18)

$$(8+5) \cdot \frac{35}{5} + 6$$

$$(13) \cdot \frac{35}{5} + 6$$

grouping symbol

$$13 \cdot 7 + 6$$

$$91 + 6$$

$$97$$

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$$\frac{5}{1} \rightarrow \frac{1}{2} = \frac{5}{2} = 2 \frac{1}{2}$$

whole = 1

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$$5 \overset{K}{\div} \overset{C}{\frac{1}{2}} \overset{F}{=} 5 \cdot \frac{2}{1} = 10$$

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#2)

$$2 \cdot 7 - \frac{10}{9-4} \leftarrow \text{grouping symbol}$$

$$2 \cdot 7 - \frac{10}{5}$$

$$2 \cdot 7 - 2$$

$$14 - 2$$

$$12$$

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#12)

$$2CD = 7 \cdot 6 = 42$$

$$\left(-\frac{10}{7}\right) + \frac{1}{6} = \frac{1}{6} + \left(-\frac{10}{7}\right)$$

$$\frac{-10 \cdot 6 + 1 \cdot 7}{42} = \frac{1 \cdot 7 + (-10) \cdot 6}{42}$$

$$\frac{-60 + 7}{42} = \frac{7 + (-60)}{42}$$

$$\boxed{-\frac{53}{42}} = \boxed{-\frac{53}{42}}$$

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#9)

$$\left(-\frac{4}{5}\right) - \frac{7}{8} = \left(-\frac{4}{5}\right) + \left(-\frac{7}{8}\right)$$

$$= \frac{-32 + (-35)}{40}$$

$$= \frac{-67}{40}$$

FACT

$$-\frac{a}{b} = \frac{-a}{b} = \frac{a}{-b}$$

$$= -\frac{67}{40}$$

C.O: 40

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#26)

$$\left(-3\frac{5}{8}\right) - 4\frac{2}{5}$$

$$\frac{[-3] \cdot 8 + 5}{8} + \frac{[-4] \cdot 5 + 2}{5}$$

$$\frac{-24 + 5}{8} + \frac{-20 + 2}{5}$$

$$-\frac{19}{8} + -\frac{18}{5}$$

$$\frac{(-19) \cdot 5 + (-18) \cdot 8}{40}$$

$$\frac{-95 + (-144)}{40} = -\frac{239}{40}$$

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①

$$\left[\frac{1}{5} - \frac{1}{6}\right] + \frac{1}{7} - \frac{1}{8}$$

$$\frac{6-5}{30} + \frac{1}{7} - \frac{1}{8}$$

$$\left[\frac{1}{30} + \frac{1}{7}\right] - \frac{1}{8}$$

$$\frac{7+30}{210} - \frac{1}{8}$$

$$\frac{37}{210} - \frac{1}{8}$$

$$\frac{296-210}{1680} = \frac{86}{1680}$$

$$= \frac{43}{840}$$

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$$\frac{5}{11} - \frac{23}{51} = \frac{255 - 253}{561}$$

$$\left(\frac{6}{1}\right) + \frac{11}{47} = \frac{282 + 11}{47}$$

$$= \frac{2}{561} \quad \text{K}$$

$$= \frac{293}{47} \quad \text{C}$$

$$= \frac{293}{47} \quad \text{F}$$

$$\frac{2}{561} \cdot \frac{47}{293} = \frac{94}{164, 973}$$

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120 ms

$$0989 \rightarrow 0999 / 1111$$

3 attempts

3 ms

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Like Terms

What is a Term?

3, -a, 4x²

Coefficient

What makes terms like?

① Same variable

② Same Exponent

3x² & -8x²

same variable

3x - 8x

(3+(-8))x

-5x

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$$\square x^{\square} + \square x^{\square} = 2x$$

$$x + x \neq x^2$$

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unlike terms

$$\textcircled{1} 5x' + 2x^2 - 4y'$$

$$\textcircled{2} 2x'y' - 3x^2y' + 4xy^2$$

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Combining like terms
(Addition)

$$(-7x^2 + 2x - 3) + (4x - 5x^2 - 1)$$

$$\underline{-7x^2 - 5x^2} + 2x + 4x - 3 - 1$$

$$(-7+(-5))x^2 + (2+4)x - 4$$

$$\boxed{-12x^2 + 6x - 4}$$

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