Section 1.6: Using the Properties

Tuesday, October 01, 2013 8:49 AM

## evaluate:

$$75 + 72 + 25 = 172$$

$$\frac{4}{3} \div 2 = \frac{2}{3}$$

$$\frac{12}{16} = \frac{3}{4}$$

$$\frac{13}{7} \cdot \frac{5}{18} = \frac{15}{14}$$

$$\frac{21}{4} \div \frac{3}{16} = \frac{21}{4} \cdot \frac{4}{3} = 28$$

like terms:

terms - a single number of the product of a number and one or more variables raised to powers

like terms have the same vorisibles reised to the same powers - only the number alt front (coefficient) changes

examples: 
$$5x^2$$
 and  $-7x^2$  are like terms  $3x^3y^3$  and  $4x^3y^2$  are not like terms

$$5x^{2}-7x^{2} = x^{2}(5-7)$$

$$= -2x^{2}$$

$$5y^3 - y^3 = 4y^3$$

$$-19m - (-3m) = -16m$$

simplify:

$$3(b^{3}+8b-4)-5(b^{3}-7b+2)$$
 $3b^{3}+34b-12-5b^{3}+35b-10$ 
 $-5b^{3}+3b^{2}+59b-22$ 

$$=\frac{100x}{-5} - \frac{75y}{-5}$$

$$\begin{array}{rcl}
& = & 100 \times -78 \text{ y} \left(-1\right) \\
& & -5 & \left(-1\right)
\end{array}$$

$$= & -100 \times +75 \text{ y}$$

note: 
$$-20 \times +15 y = 15 y - 20 \times$$

$$\int = 5(3y - 4x)$$
perfectly
acceptable

etc

answer #1

## good cancellation":

$$4m+6$$
 ant3

bad cancellation.



$$\frac{m+6}{2} = \sqrt{m+3}$$

note: 
$$\frac{m+6}{2} = \frac{m+3}{2}$$