

- Scientific Notation
- E4
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- D
- F 1b

<p>Scientific notation</p> <p>9870000.</p> <p><u>9870000.</u></p> <p>= <math>9.87 \times 10^6</math></p>	<p>Scientific notation</p> <p>0.00015</p> <p>= <math>1.5 \times 10^{-4}</math></p>
<p>124000000</p> <p>= <math>1.24 \times 10^8</math></p>	

$$\begin{array}{l} \underline{E} \\ 1 \text{ a) } 2m + 3m \quad \dots \quad \text{c) } -3w - 9w \\ \quad = 5m \quad \quad \quad \quad = -12w \end{array}$$

$$\begin{array}{l} 2 \text{ a) } (3x + 2y) + (4x - 5y) \\ \quad = 3x + 2y + 4x - 5y \\ \quad = 3x + 4x + 2y - 5y \\ \quad = 7x - 3y \end{array}$$

$$\begin{array}{l} 3 \text{ a) } 2x - 3y \\ x = 3 \quad = 2(3) - 3(-2) \\ y = -2 \quad = 6 + 6 \\ \quad \quad = 12 \end{array}$$

# Fractions

Example

$$\frac{1}{2} \Rightarrow \frac{2}{4} \Rightarrow \frac{4}{8}$$

$$\frac{1}{3} \Rightarrow \frac{2}{6} \Rightarrow \frac{4}{12}$$

$$\left. \begin{array}{l} \frac{50}{10} \stackrel{\div 5}{=} \frac{10}{2} \\ \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4} \end{array} \right\}$$

$$4 \text{ E) } x = -\frac{1}{2} \quad , \quad y = \frac{3}{4}$$

$$a) 2x + 3y$$

$$= 2\left(-\frac{1}{2}\right) + 3\left(\frac{3}{4}\right)$$

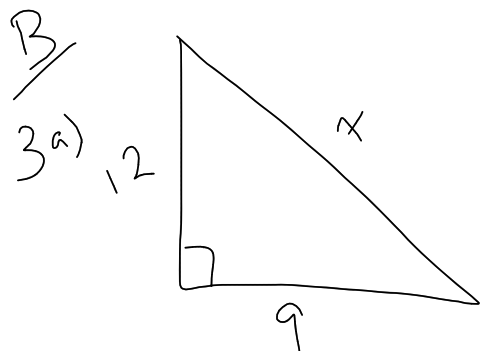
$$= \frac{2}{1}\left(-\frac{1}{2}\right) + \frac{3}{1}\left(\frac{3}{4}\right)$$

$$= -\frac{2}{2} + \frac{9}{4}$$

$$= -\frac{4}{4} + \frac{9}{4}$$

$$= \frac{5}{4}$$

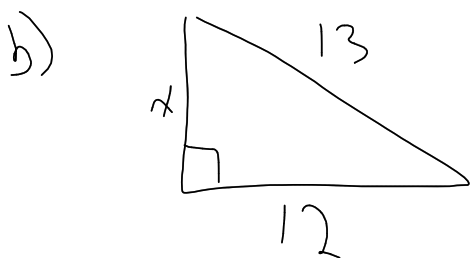
$$\left. \begin{array}{l} 3 \\ 3 \\ 3 \end{array} \right\} = \frac{3}{1}$$



$$x^2 = 12^2 + 9^2$$

⋮

$$x =$$



$$13^2 = x^2 + 12^2$$

$$xy - \dots = \left(-\frac{1}{2} \times \frac{3}{4}\right) - \dots$$

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

$$= -\frac{3}{8} - \frac{5}{1}\left(\frac{3}{4}\right)$$

$$= -\frac{3}{8} - \frac{15}{4}$$