

Addition and subtraction of fractions

Ex: 1.16

$$1b. \frac{a}{7} + \frac{b}{7} = \frac{a+b}{7}$$

$$c. \frac{x}{3} + \frac{y}{3} + \frac{z}{3} = \frac{x+y+z}{3}$$

$$f. \frac{p^2}{5} + \frac{q^2}{5} = \frac{p^2+q^2}{5}$$

$$2b. \frac{c}{11} - \frac{d}{11} = \frac{c-d}{11}$$

$$c. \frac{6}{a} - \frac{2}{a} = \frac{4}{a}$$

$$d. \frac{2a}{3} - \frac{5b}{3} = \frac{2a-5b}{3}$$

$$f. \frac{3}{4x} - \frac{5}{4x} = \frac{-2}{4x} = \frac{-1}{2x}$$

$$3a. \frac{5}{6} - \frac{1}{3} = \frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$c. \frac{2}{3c} + \frac{1}{3c} = \frac{2}{3c} + \frac{1}{3c} = \frac{3}{3c}$$

$$e. \frac{5}{2p} - \frac{1}{p} = \frac{5}{2p} - \frac{2}{2p} = \frac{3}{2p}$$

$$f. \frac{1}{w} - \frac{3}{2w} = \frac{2}{2w} - \frac{3}{2w} = \frac{-1}{2w}$$

$$4a. \frac{p}{4} - \frac{q}{12} = \frac{3p-q}{12}$$

$$d. \frac{x}{12} - \frac{y}{6} = \frac{x-2y}{12}$$

$$e. \frac{x}{2} + \frac{m}{10} = \frac{5x+m}{10}$$

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$$5a \quad \frac{3x}{4} - \frac{2x}{12} = \frac{9x - 2x}{12} = \frac{7x}{12}$$

$$c. \quad \frac{3m}{7} + \frac{m}{14} = \frac{6m + m}{14} = \frac{7m}{14} = \frac{m}{2}$$

$$e \quad \frac{4x}{3y} - \frac{5x}{6y} = \frac{8x - 5x}{6y} = \frac{3x}{6y} = \frac{x}{2y}$$