

7.6 Review

Solve.

$$1.) \boxed{k} + \frac{2}{7} = \frac{6}{7}$$

$$\frac{2}{7} \quad | \quad -\frac{2}{7}$$

$$\frac{2}{7} - \frac{2}{7} \quad | \quad \frac{6}{7} - \frac{2}{7}$$

$$k = \frac{4}{7}$$

YES

$$2.) \frac{2}{9} + \boxed{y} = \frac{7}{9}$$

$$-\frac{2}{9} \quad | \quad -\frac{2}{9}$$

$$y = \frac{5}{9}$$

Example: Solve.

$$3.) \frac{4x^2}{7} + x = \frac{13}{14}$$

$$-\frac{4}{7} \quad | \quad -\frac{4}{7}$$

$$\frac{13}{14} - \frac{28}{14}$$

$$x = \frac{5}{14}$$

$$4.) p - 4\frac{3}{10} = \frac{2}{5}$$

$$+4\frac{3}{10} \quad | \quad +4\frac{3}{10}$$

$$p = 4\frac{3}{10} + \frac{4}{10}$$

$$p = 4\frac{7}{10}$$

Example: Solve.

$$5.) n - 3\frac{7}{9} = 1\frac{1}{3}$$

$$+\frac{10}{9} \quad +\frac{10}{9}$$

$$\left\{ \frac{7}{9} + 1 \right\} \left\{ \frac{1}{3} + \frac{10}{9} \right\}$$

$$\boxed{n = 5\frac{1}{9}}$$

$$6.) 4\frac{33}{40} = 3\frac{1 \times 10}{4 \times 10} + b$$

$$4\frac{33}{40} = 3\frac{10}{40} + b$$

$$- 3\frac{10}{40} \quad - 3\frac{10}{40}$$

$$b = 4\frac{23}{40} - 3\frac{10}{40}$$

$$\boxed{1\frac{13}{40}}$$

Example: Solve.

$$7.) y - 8\frac{3}{8} = 6\frac{5}{12}$$

$$+8\frac{3}{8} \quad +8\frac{3}{8}$$

$$y = 6\frac{5}{12} + 8\frac{3}{8}$$

$$y = \frac{6 \cdot 10}{24} + \frac{8 \cdot 9}{24}$$

$$y = \frac{49}{24}$$

$$\boxed{y = 14\frac{7}{24}}$$

$$8.) 18\frac{1}{15} + f = 29\frac{3}{5}$$

$$- 18\frac{1}{15} \quad - 18\frac{1}{15}$$

$$f = 29\frac{3}{5} - 18\frac{1}{15}$$

$$f = 29\frac{9}{15} - 18\frac{1}{15}$$

$$f = \boxed{11\frac{8}{15}}$$