Solving Algebraic Equations Containing Fractions

(Deal with Fractions)

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1)
$$x - \frac{3}{7} = \frac{2}{7}$$

+ $\frac{3}{7}$ + $\frac{3}{7}$ = $\frac{5}{7}$

$$a = \frac{2}{5} \cdot \frac{4}{3}$$

$$a = \frac{2}{5} \cdot \frac{4}{3}$$

$$a = \frac{8}{15}$$

$$\frac{1}{3} \cdot -\frac{4}{5} = \frac{3y}{15} \cdot \frac{1}{3}$$

$$-\frac{4}{15} = \frac{3y}{15} \cdot \frac{1}{3}$$

4)
$$x - \frac{4}{5} = \frac{2}{15}$$

 $+ \frac{4}{5} + \frac{12}{15}$
 $x = \frac{14}{15}$

$$\frac{1}{10} - \frac{r}{6} = -\frac{3}{10}$$

$$-\frac{1}{10} - \frac{1}{10}$$

$$-\frac{6}{10} - \frac{1}{6}r = -\frac{4}{10}$$

$$-\frac{6}{10} - \frac{1}{6}r = -\frac{4}{10}$$

$$r = \frac{12}{5} \text{ or } 2\frac{2}{5}$$

6)
$$-3\frac{4}{7}x = 5$$

 $-\frac{7}{25}x = \frac{5}{7}x = \frac{7}{525}$
 $x = -\frac{7}{5} \text{ or } |\frac{2}{5}|$

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7)

9)
$$\frac{3\cdot 3}{4\cdot 3} + \frac{1r}{15} - \frac{5\cdot 2}{62} = \frac{8}{15}r$$

$$-\frac{1}{15}r - \frac{1}{15}r$$

$$\frac{15}{7} - \frac{1}{12}r = \frac{7}{15}r$$

$$\frac{7}{7} + \frac{7}{12}r = \frac{7}{15}r$$

$$\frac{|y|}{4} - \frac{4}{4}y = \frac{2}{9} - \frac{5}{9}$$

$$-\frac{4}{3} \cdot -\frac{3}{4}y = -\frac{3}{9} \cdot -\frac{4}{3}$$

$$\frac{3.7}{10.2} = 7x + \frac{1}{4} - 10x$$

$$\frac{5}{20}$$