

1. Solve for x.

a) $\frac{x}{3} - 1 = \frac{x}{5} - \frac{14}{15}$

b) $\frac{3x-4}{5} = \frac{-x}{2} - 3$

c) $\frac{5x-3}{4} + 2 = 3x + \frac{1}{2}$

d) $\frac{y+4}{3} = \frac{y+5}{2} + 2$

e) $\frac{2x}{3} - \frac{5x-3}{4} = \frac{x}{6} + 1$

f) $\frac{x}{2} - \frac{2x-4}{7} = \frac{x}{7} + 1$

g) $2(x-3) + \frac{x}{2} - \frac{1}{6} = \frac{2}{3}x - \frac{5}{2}$

Answers:

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

d) $y = -19$ e) $x = \frac{1}{3}$ f) $x = 6$ g) $x = 2$