

1a

$$\frac{x+8}{6} - \frac{x+3}{4} = \frac{3x+1}{4}$$

$$\frac{8}{6} - \frac{3}{4} = \frac{3x+1}{4}$$

$$\frac{x+16}{12} - \frac{2x+9}{12} = \frac{9x+3}{12}$$

$$x+16 - 2x+9 = 9x+3$$

$$-x + 25 = 9x + 3$$

$$-x + 22 = 9x$$

$$-x + 9x = 22$$

$$8x = 22$$