

Correct. Multiply both sides by 4:  $4\left(\frac{1}{2}x + \frac{3}{4}\right) = 4\left(x - \frac{1}{4}\right)$ , which simplifies to  $2x + 3 = 4x - 1$ . Subtract 3 from both sides, and subtract  $4x$  from both sides to get  $-2x = -4$ . Finally, divide both sides by  $-2$  to get  $x = 2$ .