

Solving equation

$$9x + 10 = 34 + x \quad (1)$$

**Solution.**

Subtract  $x$  from both sides of equation (1) and we get

$$8x + 10 = 34 \quad (2)$$

Subtract 10 from both sides of equation (2) and consider the following linear equation:

$$8x = 24 \quad (3)$$

Divide equation (3) by 8 and this gives the solution of the initial equation:

$$x = 3$$

**Answer:**  $x = 3$