

Correct. Add  $\left(\frac{-24}{2}\right)^2 = (-12)^2 = 144$  to both sides to complete the square:  $x^2 - 24x + 144 = 0$

Write the left side as the square of a binomial:  $(x - 12)^2 = 0$

Take the square root of both sides:  $x - 12 = 0$

Solve for  $x$ :  $x = 12$