Subtract 7 and then square both sides: $(\sqrt{5x-1})^2 = (5x-7)^2$ Simplify and multiply: $5x - 1 = 25x^2 - 70x + 49$ Subtract 5x - 1 from both sides: $0 = 25x^2 - 75x + 50$ Divide by 25, factor and solve: 0 = (x - 1)(x - 2), so x = 1 and x = 2

Check x = 1: $7 + \sqrt{5(1) - 1} = 5(1)$? $7 + 2 \neq 5$ extraneous solution Check x = 2: $7 + \sqrt{5(2) - 1} = 5(2)$? 7 + 3 = 10 TRUE