

You may have recognized that $7^2 = 49$, but $(6x + 7)^2 = 36x^2 + 84x + 49$, which is not equal to the given trinomial. A trinomial in the form $r^2 + 2rs + s^2$ can be factored as $(r + s)^2$. Remember that $9x^2 = (3x)^2$ and $49 = 7^2$.