

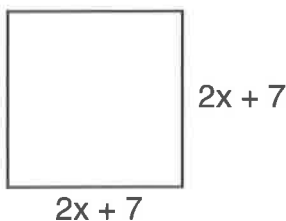
1. Simplify:  $(3p^2 + p - 4) - (2p^2 + 7p - 9)$

$$\begin{array}{r} 3p^2 + p - 4 \\ -2p^2 - 7p + 9 \\ \hline p^2 - 6p + 5 \end{array}$$

2. Simplify:  $-3y(-6y^3 + y^2 - 7)$

$$\begin{array}{l} -3y(-6y^3) - 3y(y^2) - 3y(-7) \\ 18y^4 - 3y^3 + 21y \end{array}$$

3. Find the area of the square which has a length of  $2x + 7$  on each side.



$$\begin{aligned} A &= (2x+7)(2x+7) \\ &= 4x^2 + 14x + 14x + 49 \\ &= 4x^2 + 28x + 49 \end{aligned}$$

If you used  $(A+B)(A+B) = A^2 + 2AB + B^2$

$$\begin{array}{l} (2x+7)(2x+7) = (2x)^2 + 2(2x)(7) + 7^2 \\ \uparrow \quad \uparrow \\ A=2x \quad B=7 \end{array} = 4x^2 + 28x + 49$$