Use distributive property to multiply 2 polynomials
Ex .\#1
(a.)

$$
\begin{aligned}
& (3 k+4)\left(k^{2}-2 k-7\right) \\
= & 3 k^{3}-6 k^{2}-21 k+4 k^{2}-8 k-28 \\
= & 3 k^{3}-2 k^{2}-29 k-28
\end{aligned}
$$

Expand and Simplify
(a.) $(4 K-3 m)^{2}$
(b.)

$$
=(4 k-3 m)(4 k-3 m)
$$

$$
\begin{aligned}
& (2 v-5 w(3 v+2 w-7) \\
= & 6 v^{2}+4 v-14 v-15 w-10 w^{2}+35 w \\
= & 6 v^{2}-11 w w-14 v-10 w^{2}+35 w
\end{aligned}
$$

$$
\begin{aligned}
& =16 k^{2}-12 k m-12 k m+9 m^{2} \\
& =16 k^{2}-24 k m+9 m^{2}
\end{aligned}
$$

