



$$(3m + 4)(5m^2 + 7m - 8)$$

Vertical Method

$$\begin{array}{r} 5m^2 + 7m - 8 \quad (1) \\ \times \quad 3m + 4 \\ \hline 20m^2 + 28m - 32 \\ + 15m^3 + 21m^2 - 24m \quad (2) \\ \hline 15m^3 + 41m^2 + 4m - 32 \quad (3) \end{array}$$



$$(3m + 4)(5m^2 + 7m - 8)$$

Distributive Property

$$(3m+4)(5m^2) + (3m+4)(7m) + (3m+4)(-8)$$



$$15m^3 + 20m^2 + 21m^2 + 28m - 24m - 32$$



$$\cdot 15m^3 + 41m^2 + 4m - 32$$