

$$\begin{aligned}\text{tip1: } (ax + b)(a^2x^2 - abx + b^2) \\ = a^3x^3 + b^3\end{aligned}$$

$$\begin{aligned}\text{tip2: } (ax - b)(a^2x^2 + abx + b^2) \\ = a^3x^3 - b^3\end{aligned}$$

$$\begin{aligned}(1) \quad & -(2x - 1)(4x^2 + 2x + 1) \\ & = -(8x^3 - 1) \\ & = 1 - 8x^3\end{aligned}$$

$$\begin{aligned}(2) \quad & -(5x + 8)(25x^2 - 40x + 64) \\ & = -(125x^3 + 512) \\ & = -125x^3 - 512\end{aligned}$$

$$\begin{aligned}(3) \quad & (2x - 5)(4x^2 + 10x + 25) \\ & = 8x^3 - 125\end{aligned}$$

$$\begin{aligned}(4) \quad & 2(x + 1)(x^2 - x + 1) \\ & = 2(x^3 + 1) \\ & = 2x^3 + 2\end{aligned}$$

$$\begin{aligned}(5) \quad & (x + 2)(x^2 - 2x + 4) \\ & = x^3 + 8\end{aligned}$$

$$\begin{aligned}(6) \quad & -(5x - 2)(25x^2 + 10x + 4) \\ & = -(125x^3 - 8) \\ & = 8 - 125x^3\end{aligned}$$

$$\begin{aligned}(7) \quad & -(x - 4)(x^2 + 4x + 16) \\ & = -(x^3 - 64) \\ & = 64 - x^3\end{aligned}$$

$$\begin{aligned}(8) \quad & -(x - 7)(x^2 + 7x + 49) \\ & = -(x^3 - 343) \\ & = 343 - x^3\end{aligned}$$

$$\begin{aligned}(9) \quad & -(x + 3)(x^2 - 3x + 9) \\ & = -(x^3 + 27) \\ & = -x^3 - 27\end{aligned}$$

$$\begin{aligned}(10) \quad & -(2x - 3)(4x^2 + 6x + 9) \\ & = -(8x^3 - 27) \\ & = 27 - 8x^3\end{aligned}$$

$$\begin{aligned}(11) \quad & -(x - 4)(x^2 + 4x + 16) \\ & = -(x^3 - 64) \\ & = 64 - x^3\end{aligned}$$

$$\begin{aligned}(12) \quad & (x + 2)(x^2 - 2x + 4) \\ & = x^3 + 8\end{aligned}$$

$$\begin{aligned}(13) \quad & (2x - 5)(4x^2 + 10x + 25) \\ & = 8x^3 - 125\end{aligned}$$

$$\begin{aligned}(14) \quad & (x - 8)(x^2 + 8x + 64) \\ & = x^3 - 512\end{aligned}$$

$$\begin{aligned}(15) \quad & (x + 1)(x^2 - x + 1) \\ & = x^3 + 1\end{aligned}$$

$$\begin{aligned}(16) \quad & (4x - 3)(16x^2 + 12x + 9) \\ & = 64x^3 - 27\end{aligned}$$

$$\begin{aligned}(17) \quad & -(x - 8)(x^2 + 8x + 64) \\ & = -(x^3 - 512) \\ & = 512 - x^3\end{aligned}$$

$$\begin{aligned}(18) \quad & -(4x + 3)(16x^2 - 12x + 9) \\ & = -(64x^3 + 27) \\ & = -64x^3 - 27\end{aligned}$$

$$\begin{aligned}(19) \quad & (x + 1)(x^2 - x + 1) \\ & = x^3 + 1\end{aligned}$$

$$\begin{aligned}(20) \quad & -(x - 8)(x^2 + 8x + 64) \\ & = -(x^3 - 512) \\ & = 512 - x^3\end{aligned}$$