

式の展開 3項・工夫（20問） 版Fの答え

※ 置き換えの問題は、 $x + y$ を1つの文字と見て展開したかを見てください。

$$\begin{aligned}(1) & (x + 3)(x - 3)(x^2 + 9) \\ & = x^4 - 81\end{aligned}$$

$$\begin{aligned}(2) & (x + 3y + 2)^2 \\ & = x^2 + 6xy + 9y^2 + 4x + 12y + 4\end{aligned}$$

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

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

$$\begin{aligned}(5) & (x + 3y - 1)^2 \\ & = x^2 + 6xy + 9y^2 - 2x - 6y + 1\end{aligned}$$

$$\begin{aligned}(6) & (x + y - 7)(x + y - 4) \\ & = x^2 + 2xy + y^2 - 11x - 11y + 28\end{aligned}$$

$$\begin{aligned}(7) & (x - y - 1)^2 \\ & = x^2 - 2xy + y^2 - 2x + 2y + 1\end{aligned}$$

$$\begin{aligned}(8) & (x - 3y + 2)^2 \\ & = x^2 - 6xy + 9y^2 + 4x - 12y + 4\end{aligned}$$

$$\begin{aligned}(9) & (x - 1)(x + 4)(x + 5) \\ & = x^3 + 8x^2 + 11x - 20\end{aligned}$$

$$\begin{aligned}(10) & (x + 2)(x - 2)(x^2 + 4) \\ & = x^4 - 16\end{aligned}$$

$$\begin{aligned}(11) & (x^2 + x - 4)(x^2 - x - 4) \\ & = x^4 - 9x^2 + 16\end{aligned}$$

$$\begin{aligned}(12) & (x - 3)(x + 3)(x + 5) \\ & = x^3 + 5x^2 - 9x - 45\end{aligned}$$

$$\begin{aligned}(13) & (x^2 + 4x + 2)(x^2 - 4x + 2) \\ & = x^4 - 12x^2 + 4\end{aligned}$$

$$\begin{aligned}(14) & (x + 2)(x - 4)(x + 5) \\ & = x^3 + 3x^2 - 18x - 40\end{aligned}$$

$$\begin{aligned}(15) & (x - 2y + 3)^2 \\ & = x^2 - 4xy + 4y^2 + 6x - 12y + 9\end{aligned}$$

$$\begin{aligned}(16) & (x + y + 6)(x + y + 4) \\ & = x^2 + 2xy + y^2 + 10x + 10y + 24\end{aligned}$$

$$\begin{aligned}(17) & (x + 4)(x - 4)(x^2 + 16) \\ & = x^4 - 256\end{aligned}$$

$$\begin{aligned}(18) & (x + y + 7)(x + y + 2) \\ & = x^2 + 2xy + y^2 + 9x + 9y + 14\end{aligned}$$

$$\begin{aligned}(19) & (x + y + 5)(x + y - 6) \\ & = x^2 + 2xy + y^2 - x - y - 30\end{aligned}$$

$$\begin{aligned}(20) & (x - 1)(x + 3)(x + 5) \\ & = x^3 + 7x^2 + 7x - 15\end{aligned}$$