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次の式を因数分解しなさい。

(1)  $7x + 21$

(2)  $3xy + 21y^2$

(3)  $5x^2 + 20x$

(4)  $8ab - 4a$

(5)  $2x^2 - 16xy$

(6)  $8ax + 20a$

(7)  $14ab + 7bc$

(8)  $30x^2y - 5xy^2$

(9)  $4a^2b + 20ab^2 - 32ab$

(10)  $18ab + 8a$

(11)  $24x^3y^2 - 6x^2y$

(12)  $5a^2b - 15ab^2 - 30ab$

(13)  $16a^2b - 32ab^2 + 40abc$

(14)  $27x^3y^3 + 18x^2y^2$

(15)  $15a^3b - 21a^2b^2 - 27ab^3$

(16)  $36a^3b^2 - 54a^2b^3 - 18a^2b^2$

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次の式を因数分解しなさい。

$$\begin{aligned} \textcircled{1} \quad & 7x + 21 \\ & = 7(x + 3) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 3xy + 21y^2 \\ & = 3y(x + 7y) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & 5x^2 + 20x \\ & = 5x(x + 4) \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 8ab - 4a \\ & = 4a(2b - 1) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & 2x^2 - 16xy \\ & = 2x(x - 8y) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & 8ax + 20a \\ & = 4a(2x + 5) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & 14ab + 7bc \\ & = 7b(2a + c) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & 30x^2y - 5xy^2 \\ & = 5xy(6x - y) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & 4a^2b + 20ab^2 - 32ab \\ & = 4ab(a + 5b - 8) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & 18ab + 8a \\ & = 2a(9b + 4) \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & 24x^3y^2 - 6x^2y \\ & = 6x^2y(4xy - 1) \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & 5a^2b - 15ab^2 - 30ab \\ & = 5ab(a - 3b - 6) \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad & 16a^2b - 32ab^2 + 40abc \\ & = 8ab(2a - 4b + 5c) \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad & 27x^3y^3 + 18x^2y^2 \\ & = 9x^2y^2(3xy + 2) \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad & 15a^3b - 21a^2b^2 - 27ab^3 \\ & = 3ab(5a^2 - 7ab - 9b^2) \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & 36a^3b^2 - 54a^2b^3 - 18a^2b^2 \\ & = 18a^2b^2(2a - 3b - 1) \end{aligned}$$