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次の式を因数分解しなさい。

(1) $32x + 4$

(2) $48xy + 24y^2$

(3) $21x^2 + 49x$

(4) $32ab - 16a$

(5) $4x^2 - 16xy$

(6) $40ax + 25a$

(7) $35ab + 21bc$

(8) $36x^2y - 27xy^2$

(9) $3a^2b + 12ab^2 - 27ab$

(10) $24ab + 6a$

(11) $30x^3y^2 - 5x^2y$

(12) $12a^2b - 20ab^2 - 28ab$

(13) $28a^2b - 42ab^2 + 14abc$

(14) $36x^3y^3 + 18x^2y^2$

(15) $20a^3b - 35a^2b^2 - 40ab^3$

(16) $54a^3b^2 - 27a^2b^3 - 72a^2b^2$

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次の式を因数分解しなさい。

$$\begin{aligned} \textcircled{1} \quad & 32x + 4 \\ & = 4(8x + 1) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 48xy + 24y^2 \\ & = 24y(2x + y) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad & 21x^2 + 49x \\ & = 7x(3x + 7) \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad & 32ab - 16a \\ & = 16a(2b - 1) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad & 4x^2 - 16xy \\ & = 4x(x - 4y) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad & 40ax + 25a \\ & = 5a(8x + 5) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad & 35ab + 21bc \\ & = 7b(5a + 3c) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad & 36x^2y - 27xy^2 \\ & = 9xy(4x - 3y) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad & 3a^2b + 12ab^2 - 27ab \\ & = 3ab(a + 4b - 9) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad & 24ab + 6a \\ & = 6a(4b + 1) \end{aligned}$$

$$\begin{aligned} \textcircled{11} \quad & 30x^3y^2 - 5x^2y \\ & = 5x^2y(6xy - 1) \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad & 12a^2b - 20ab^2 - 28ab \\ & = 4ab(3a - 5b - 7) \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad & 28a^2b - 42ab^2 + 14abc \\ & = 14ab(2a - 3b + c) \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad & 36x^3y^3 + 18x^2y^2 \\ & = 9x^2y^2(4xy + 2) \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad & 20a^3b - 35a^2b^2 - 40ab^3 \\ & = 5ab(4a^2 - 7ab - 8b^2) \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad & 54a^3b^2 - 27a^2b^3 - 72a^2b^2 \\ & = 9a^2b^2(6a - 3b - 8) \end{aligned}$$