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次の式を因数分解しなさい。

(1)  $24x + 18$

(2)  $49xy + 28y^2$

(3)  $15x^2 + 25x$

(4)  $16ab - 12a$

(5)  $8x^2 - 32xy$

(6)  $12ax + 24a$

(7)  $25ab + 10bc$

(8)  $27x^2y - 18xy^2$

(9)  $6a^2b + 36ab^2 - 48ab$

(10)  $27ab + 9a$

(11)  $36x^3y^2 - 6x^2y$

(12)  $10a^2b - 25ab^2 - 15ab$

(13)  $24a^2b - 40ab^2 + 16abc$

(14)  $28x^3y^3 + 12x^2y^2$

(15)  $27a^3b - 63a^2b^2 - 45ab^3$

(16)  $24a^3b^2 - 16a^2b^3 - 64a^2b^2$

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次の式を因数分解しなさい。

$$\textcircled{1} \quad 24x + 18$$

$$= 6(4x + 3)$$

$$\textcircled{2} \quad 49xy + 28y^2$$

$$= 7y(7x + 4y)$$

$$\textcircled{3} \quad 15x^2 + 25x$$

$$= 5x(3x + 5)$$

$$\textcircled{4} \quad 16ab - 12a$$

$$= 4a(4b - 3)$$

$$\textcircled{5} \quad 8x^2 - 32xy$$

$$= 8x(x - 4y)$$

$$\textcircled{6} \quad 12ax + 24a$$

$$= 12a(x + 2)$$

$$\textcircled{7} \quad 25ab + 10bc$$

$$= 5b(5a + 2c)$$

$$\textcircled{8} \quad 27x^2y - 18xy^2$$

$$= 9xy(3x - 2y)$$

$$\textcircled{9} \quad 6a^2b + 36ab^2 - 48ab$$

$$= 6ab(a + 6b - 8)$$

$$\textcircled{10} \quad 27ab + 9a$$

$$= 9a(3b + 1)$$

$$\textcircled{11} \quad 36x^3y^2 - 6x^2y$$

$$= 6x^2y(6xy - 1)$$

$$\textcircled{12} \quad 10a^2b - 25ab^2 - 15ab$$

$$= 5ab(2a - 5b - 3)$$

$$\textcircled{13} \quad 24a^2b - 40ab^2 + 16abc$$

$$= 8ab(3a - 5b + 2c)$$

$$\textcircled{14} \quad 28x^3y^3 + 12x^2y^2$$

$$= 4x^2y^2(7xy + 3)$$

$$\textcircled{15} \quad 27a^3b - 63a^2b^2 - 45ab^3$$

$$= 9ab(3a^2 - 7ab - 5b^2)$$

$$\textcircled{16} \quad 24a^3b^2 - 16a^2b^3 - 64a^2b^2$$

$$= 8a^2b^2(3a - 2b - 8)$$