

<b>因数分解</b>	応用 1	氏名	
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次のそれぞれの式を因数分解しなさい。

$$\textcircled{1} \quad 2a^3 - 18a \qquad \textcircled{2} \quad 2x^3y - 2x^2y - 40xy$$

$$\textcircled{3} \quad 3x^3 - 6x^2 - 9x \qquad \textcircled{4} \quad 2x^2 - 50$$

$$\textcircled{5} \quad ab^2 + 12ab + 20a \qquad \textcircled{6} \quad 2ax^2 - 8ax + 8a$$

$$\textcircled{7} \quad 3x^3 - 18x^2 + 24x \qquad \textcircled{8} \quad ax^2 - 6ax - 7a$$

$$\textcircled{9} \quad 2x^2 - 20x + 50 \qquad \textcircled{10} \quad 3x^3 + 15x^2 - 18x$$

$$\textcircled{11} \quad a^2x^2 + 4a^2x + 4a^2 \qquad \textcircled{12} \quad 4x^2 + 36x + 56$$

$$\textcircled{13} \quad 2x^3y^4 - 8xy^2 \qquad \textcircled{14} \quad x^3y - 8x^2y - 20xy$$

$$\textcircled{15} \quad 3x^2 - 12 \qquad \textcircled{16} \quad ax^2 - 4a$$

$$\textcircled{17} \quad -x^2 + 4x - 3 \qquad \textcircled{18} \quad -x^2 + 10x - 25$$

$$\textcircled{19} \quad -a^2 - 12a - 27 \qquad \textcircled{20} \quad -x^2 - 2x + 15$$

解答

$$\textcircled{1} 2a(a+3)(a-3) \quad \textcircled{2} 2xy(x+4)(x-5)$$

$$\textcircled{3} 3x(x+1)(x-3) \quad \textcircled{4} 2(x+5)(x-5)$$

$$\textcircled{5} a(b+2)(b+10) \quad \textcircled{6} 2a(x-2)^2$$

$$\textcircled{7} 3x(x-2)(x-4) \quad \textcircled{8} a(x+1)(x-7)$$

$$\textcircled{9} 2(x-5)^2 \quad \textcircled{10} 3x(x+6)(x-1)$$

$$\textcircled{11} a^2(x+2)^2 \quad \textcircled{12} 4(x+2)(x+7)$$

$$\textcircled{13} 2xy^2(x+y+2)(x+y-2) \quad \textcircled{14} xy(x+2)(x-10)$$

$$\textcircled{15} 3(x+2)(x-2) \quad \textcircled{16} a(x+2)(x-2)$$

$$\textcircled{17} -(x-1)(x-3) \quad \textcircled{18} -(x-5)^2$$

$$\textcircled{19} -(a+3)(a+9) \quad \textcircled{20} -(x+5)(x-3)$$