

17	因数分解(1)	年 組 番
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1 次の式を因数分解しなさい。

(1) $7x^2 - x$

[解] $7x^2 - x$
 $= x \times 7x - x \times 1$
 $= \mathbf{x(7x - 1)}$

(2) $5ax - 10ay$

[解] $5ax - 10ay$
 $= 5a \times x - 5a \times 2y$
 $= \mathbf{5a(x - 2y)}$

(3) $6x^2 + 8xy$

[解] $6x^2 + 8xy$
 $= 2x \times 3x + 2x \times 4y$
 $= \mathbf{2x(3x + 4y)}$

(4) $3x^2y + 7x^2z$

[解] $3x^2y + 7x^2z$
 $= x^2 \times 3y + x^2 \times 7z$
 $= \mathbf{x^2(3y + 7z)}$

(5) $5a^2b - 2ab$

[解] $5a^2b - 2ab$
 $= ab \times 5a - ab \times 2$
 $= \mathbf{ab(5a - 2)}$

(6) $8a^3c + 5a^2bc$

[解] $8a^3c + 5a^2bc$
 $= a^2c \times 8a + a^2c \times 5b$
 $= \mathbf{a^2c(8a + 5b)}$

(7) $6x^2y^2 - 10xy^3$

[解] $6x^2y^2 - 10xy^3$
 $= 2xy^2 \times 3x - 2xy^2 \times 5y$
 $= \mathbf{2xy^2(3x - 5y)}$

(8) $6a^3b^2c + 9abc^2$

[解] $6a^3b^2c + 9abc^2$
 $= 3abc \times 2a^2b + 3abc \times 3c$
 $= \mathbf{3abc(2a^2b + 3c)}$