



解説  
NO5

多項式の計算NO5  
乗法公式応用①

NAME

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乗法公式1  $(\bullet + \Delta)(\bullet + \square) = \bullet^2 + (\Delta + \square)\bullet + \Delta\square$     乗法公式3  $(\bullet - \Delta)^2 = \bullet^2 + \bullet \times (-\Delta) \times 2 + (-\Delta)^2$   
 乗法公式2  $(\bullet + \Delta)^2 = \bullet^2 + \bullet \times \Delta \times 2 + \Delta^2$     乗法公式4  $(\bullet + \Delta)(\bullet - \Delta) = \bullet^2 - \Delta^2$

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①  $\frac{(x-5)^2 + (x-3)(x+3)}{(\quad)(\quad)}$

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②  $\frac{(x-3)(2x-2) - (x+5)(x-2)}{(\quad)(\quad)}$

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③  $\frac{2(x+3)^2 - 3(x-4)(x+4)}{(\quad)(\quad)}$

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④  $\frac{(3x+y)^2 - 3x(2x-y)}{(\quad)(\quad)}$

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

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⑥  $\frac{3(x-5)(x+6) - 3(x+4)(x-3)}{(\quad)(\quad)}$

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①  $\frac{2(x+1)(x+2) + (x-3)(x+3)}{(\quad)(\quad)}$

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②  $\frac{2(a-3)^2 - (a-2)(a-5)}{(\quad)(\quad)}$

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③  $\frac{(2x+5)(2x-5) - 3(x-3)(x+2)}{(\quad)(\quad)}$

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④  $\frac{4(x+y)^2 - 3(2x-y)^2}{(\quad)(\quad)}$

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⑤  $\frac{5(x+6)(x-6) + 2(2x-1)^2}{(\quad)(\quad)}$

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⑥  $\frac{(4a+b)^2 + (4a-b)^2}{(\quad)(\quad)}$

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