

Level 1

① $x^2 + 3x - 4$

② $x^2 + 2x + 1$

③ $x^2 - y^2$

Level 2

① $9x^2 + 6x + 1$

② $4x^2 - 25y^2$

③ $225x - 100$

Level 3

$$\textcircled{1} \quad 2x^2y - 2xy - 12y$$

$$\textcircled{2} \quad (x - 2)^2 - 6(x - 2) + 9$$

$$\textcircled{3} \quad x + ay - ax - y$$

Level 4

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

$$\textcircled{2} \quad (x + 2y)(x + 2y + 14) + 24$$

$$\textcircled{3} \quad x^3 + 3x^2y - 4xy^2 - 12y^3$$

Level 5

$$\textcircled{1} \quad 16x^2 - 24xy + 9y^2 - 16x + 12y - 12$$

$$\textcircled{2} \quad x^4 + 2x^3y - 2xy^3 - y^4$$

$$\textcircled{3} \quad x^4 + x^2 + 1 - 2xy - y^2$$