

W1

$$1) (a+2)(a-2) = a^2 - 2a + 2a - 4 = a^2 - 4$$

$$2) (3b-1)(3b+1) = 9b^2 + 3b - 3b - 1 = 9b^2 - 1$$

$$3) (a+2b)(a-2b) = a^2 - 2ab + 2ba - 4b^2 = a^2 - 4b^2$$

$$4) (4a-b)(b+4a) = 4ab + 16a^2 - b^2 - 4ab = 16a^2 - b^2$$

W2

$$1) 4x^2 - 1 = (2x-1)(2x+1)$$

$$2) m^2 - a^2 = (m-a)(m+a)$$

$$3) a^2 - 9y^2 = (a-3y)(a+3y)$$

$$4) 49x^2 - 121a^2 = (7x-11a)(7x+11a)$$

$$5) x^2 - y^2 = (x-y)(x+y)$$

$$6) -a^4 + 16 = (a^2-4)(a^2+4)$$

W3