

**1.** (1)  $6x^2y - 8xy^2 = 2xy(3x - 4y)$  (2 点)

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

(3)  $4x^2 - 12xy + 9y^2 = (2x - 3y)^2$  (2 点)

(4)  $4x^2 - 9 = (2x + 3)(2x - 3)$  (2 点)

(5)  $16x^2 - 25y^2 = (4x + 5y)(4x - 5y)$  (2 点)

(6)  $x^2 + x - 12 = (x - 3)(x + 4)$  (3 点)

(7)  $x^2 - 8x + 15 = (x - 3)(x - 5)$  (3 点)

(8)  $x^2 - 2xy - 3y^2 = (x + y)(x - 3y)$  (4 点)