

1. Factor:  $(x^3 + 2x^2y)(4x - 8y)$

$$x^2(x + 2y) - 4(x + 2y)$$

$$(x^2 - 4)(x + 2y)$$

$$(x + 2)(x - 2)(x + 2y)$$

2. Factor:  $5x^3y - 5xy$

$$5xy(x^2 - 1)$$

$$5xy(x + 1)(x - 1)$$

3. Factor:  $(9x^3 + 9x^2y) - x - y$

$$9x^2(x + y) - 1(x + y)$$

$$(9x^2 - 1)(x + y)$$

$$(3x + 1)(3x - 1)(x + y)$$