

Foundational Skills in Mathematics

Classwork 10

1. $ax + ay + bx + by$

Grouping: $a(x + y) + b(x + y)$

Factorizing: $(a + b)(x + y)$

2. $x^3 - x^2 + x - 1$

Grouping: $x^2(x - 1) + 1(x - 1)$

Factorizing: $(x^2 + 1)(x - 1)$

3. $2x^3y + 4x^2y^2 - 3xy - 6y^2$

Grouping: $2x^2y(x + 2y) - 3y(x + 2y)$

Factorizing: $(2x^2y - 3y)(x + 2y)$

4. $ac + ad + bc + bd$

Grouping: $a(c + d) + b(c + d)$

Factorizing: $(a + b)(c + d)$