

# Factoring By Grouping

Factor each completely.

1)  $12a^3 - 9a^2 + 4a - 3$

$$[3a^2(4a - 3) + 1(4a - 3)]$$

$$(4a - 3)(3a^2 + 1)$$

3)  $3n^3 - 4n^2 + 9n - 12$

$$[n^2(3n - 4) + 3(3n - 4)]$$

$$(n^2 + 3)(3n - 4)$$

5)  $m^3 - m^2 + 2m - 2$

$$[m^2(m - 1) + 2(m - 1)]$$

$$(m^2 + 2)(m - 1)$$

2)  $2p^3 + 5p^2 + 6p + 15$

$$[p^2(2p + 5) + 3(2p + 5)] =$$

$$(2p + 5)(p^2 + 3)$$

4)  $12n^3 + 4n^2 + 3n + 1$

$$[4n^2(3n + 1) + 1(3n + 1)]$$

$$(4n^2 + 1)(3n + 1)$$

6)  $5n^3 - 10n^2 + 3n - 6$

$$[5n^2(n - 2) + 3(n - 2)]$$

$$(5n^2 + 3)(n - 2)$$

# Kuta Software Infinite Algebra 2 Complex Numbers

**Jannat Bilal**



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