

## Factor by Grouping

Factor completely

1)  $x^3 + 5x^2 + 2x + 10$

$$(x^2 + 2)(x + 5)$$

2)  $6x^3 + 3x^2 - 8x - 4$

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

3)  $2x^3 - 2x^2 - 3x + 3$

$$(2x^2 - 3)(x - 1)$$

4)  $2x^3 + 5x^2 + 34x + 85$

$$(x^2 + 17)(2x + 5)$$