

I. Factor each (four term) polynomial completely where the “grouping” has been started already.

1.) $x(3x + 4) - 3(3x + 4)$

2.) $2h(h^2 - 5) + (h^2 - 5)$

3.) $4a^2(x - 2) + 5(x - 2)$

4.) $6x(x + 1) - 2(x + 1)$

5.) $5x^2(2x + 3) + 15(2x + 3)$

6.) $3x^2(4x - 2) - x(4x - 2)$

II. Factor each (four term) polynomial completely BY GROUPING! SHOW YOUR WORK!!

7.) $10x^3 - 25x^2 + 4x - 10$

8.) $2w^3 + 12w^2 - 5w - 30$

9.) $6n^3 + 3n^2 + 2n + 1$

10.) $x^2 + 3x + 4x + 12$

11.) $2x^2 - 3x + 4x - 6$

12.) $48x^2 + 6x + 40x + 5$

13.) $10x^2 - 25x - 8x + 20$

14.) $3x^2 + 2x - 15x - 10$

15.) $15x^2 - 9x + 30x - 18$

16.) $12x^3 + 4x^2 + 24x^2 + 8x$