

## Factor by Grouping Intro Assingment

**Factor each completely.**

1)  $20k^3 + 25k^2 + 16k + 20$

2)  $3m^3 + 2m^2 + 9m + 6$

3)  $15n^3 + 25n^2 + 3n + 5$

4)  $3xy + 15x + 2y + 10$

5)  $10xy - 14x^2 - 40y + 56x$

6)  $30xy - 75x - 48y + 120$

7)  $16u^2a - 70uxv + 40uav - 28u^2x$

8)  $80x^3y^3 + 75x^2y^2 - 50x^3y^2 - 120x^2y^3$

9)  $42p^3q^3w + 18p^2q^4k - 18p^3q^3k - 42p^2q^4w$

10)  $126xc - 12yd^2 - 21xd^2 + 72yc$