

1. Factor:  $9x^4 + 18x^3 + 6x^2$

2. Factor:  $15x^4y^6 - 3x^3y^5 + 12x^4y^4$

3. Factor:  $-5x^3 + 50x^2 - 10x$

4. Factor:  $4y(a - b) - (a - b)$

5. Factor by grouping:  $x^3 - 2x^2 + 5x - 10$

6. Factor by grouping:  $xy - 5x + 9y - 45$

7. Factor by grouping:  $2x^3 - 10 + 4x^2 - 5x$

8. Factor by grouping:  $x^3 - 2 + 3x^3y - 6y$

Q: The more you take, the more you leave behind. What are they?