

Must show all steps and all work to earn full credit.

Factor out the greatest common factor. Simplify the factors, if possible.

1) $30x^8y^9 - 24x^4y^6 - 12x^6y^2$

2) $3x(2x - 5) - 4(2x - 5)$

Factor by grouping.

3) $4n + 4x - n^2 - nx$

Factor the trinomial completely.

4) $-x^2 - 2x + 24$

Factor completely.

5) $5x^5 - 25x^4 - 120x^3$