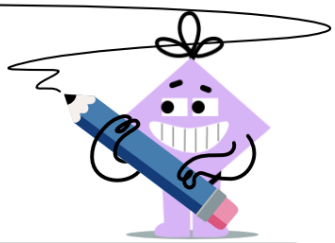
Name



Factor Polynomials (Order 3) - By Grouping to Common Factors, Coefficient 1

1 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$n^3 + 4n^2 + 5n + 20$$

A $n^2(n-4) - 30(n-4)$

B $n^2(n+4) + 5(n+4)$

2 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$y^3 - 9y^2 + 2y - 18$$

A $y^2(y-9) - 16(y-9)$

B $y^2(y-9) + 2(y-9)$

3 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$q^3 + 3q^2 + 6q + 18$$

A $q^2(q+3) - 42(q+3)$

B $q^2(q+3) + 6(q+3)$

4 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$t^3 + 9t^2 + 2t + 18$$

A $t^2(t+9) + 2(t+9)$

B $t^2(t-9) - 14(t-9)$

5 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$q^3 + 3q^2 + 8q + 24$$

A $q^2(q+3) + 8(q+3)$

B $q^2(q-3) + 16(q-3)$

6 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$w^3 - 4w^2 - 9w + 36$$

A $w^2(w-4) - 9(w-4)$

B $w^2(w+4) - 9(w+4)$

7 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$r^3 - 2r^2 + 7r - 14$$

A $r^2(r-2) - 56(r-2)$

B $r^2(r-2) + 7(r-2)$

8 Group the terms in pairs and remove a common factor to begin factoring by grouping

$$t^3 - 8t^2 + 2t - 16$$

A $t^2(t-8) + 2(t-8)$

B $t^2(t-44) + 12(t-44)$