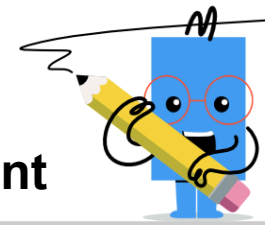
Name

Factor Polynomials (Order 3) - By Grouping to Order 2 Factors, Coefficient 1



1 Use grouping to remove a factor from this order 3 polynomial

$$m^3 + 3m^2 + 2m + 6$$

A $(m-3)(m^2-2)$

B $(m+3)(m^2+2)$

2 Use grouping to remove a factor from this order 3 polynomial

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

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

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

3 Use grouping to remove a factor from this order 3 polynomial

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

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

B $(p+2)(p^2+34)$

4 Use grouping to remove a factor from this order 3 polynomial

$$x^3 - 3x^2 + 6x - 18$$

A $(x-3)(x^2+6)$

B $(x+3)(x^2-18)$

5 Use grouping to remove a factor from this order 3 polynomial

$$y^3 - 3y^2 + 2y - 6$$

A $(y-3)(y^2+2)$

B $(y+3)(y^2-2)$

6 Use grouping to remove a factor from this order 3 polynomial

$$w^3 - 3w^2 + 7w - 21$$

A $(w-3)(w^2+7)$

B $(w+3)(w^2-21)$

7 Use grouping to remove a factor from this order 3 polynomial

$$q^3 + 9q^2 + 6q + 54$$

A $(q+9)(q^2+6)$

B $(q+9)(q^2+54)$

8 Use grouping to remove a factor from this order 3 polynomial

$$r^3 + 6r^2 + 2r + 12$$

A $(r+6)(r^2+4)$

B $(r+6)(r^2+2)$