Name

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

1 Factor the 2nd order polynomial to give three binomial factors

$$(m+7)(m^2-16)$$

A $(m-7)(m+4)(m-4)$

B $(m+7)(m-4)(m+4)$

2 Factor the 2nd order polynomial to give three binomial factors $(w-2)(w^2-49)$

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

B $(w-2)(w+7)(w-7)$

3 Factor the 2nd order polynomial to give three binomial factors $(t+6)(t^2-16)$

A $(t+6)(t-4)(t+4)$

B $(t+6)(t-4)(t-4)$

4 Factor the 2nd order polynomial to give three binomial factors $(w+7)(w^2-9)$

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

B $(w+7)(w-3)(w+3)$

5 Factor the 2nd order polynomial to give three binomial factors $(w-7)(w^2-9)$

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

B $(w-7)(w+3)(w-3)$

6 Factor the 2nd order polynomial to give three binomial factors $(n+2)(n^2-49)$

A $(n-2)(n+7)(n+7)$

B $(n+2)(n-7)(n+7)$

7 Factor the 2nd order polynomial to give three binomial factors $(y-5)(y^2-16)$

A $(y-5)(y-4)(y-4)$

B $(y-5)(y-4)(y+4)$

8 Factor the 2nd order polynomial to give three binomial factors $(r+4)(r^2-9)$

A $(r-4)(r+3)(r-3)$

B $(r+4)(r-3)(r+3)$