Name

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

1 Consolidate the shared common factor to create 2 binomial factors

$$t^2(t-6)-25(t-6)$$

A $(t+6)(t^2-150)$

B $(t-6)(t^2-25)$

2 Consolidate the shared common factor to create 2 binomial factors

$$p^2(p-2)+6(p-2)$$

A $(p-2)(p^2+6)$

B $(p+2)(p^2-12)$

3 Consolidate the shared common factor to create 2 binomial factors

$$z^2(z+2)+3(z+2)$$

A $(z+2)(z^2+3)$

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

4 Consolidate the shared common factor to create 2 binomial factors

$$z^2(z-3)+6(z-3)$$

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

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

5 Consolidate the shared common factor to create 2 binomial factors

$$r^2(r-6)+5(r-6)$$

A $(r+6)(r^2+5)$

B $(r-6)(r^2+5)$

6 Consolidate the shared common factor to create 2 binomial factors

$$n^2(n-9)+3(n-9)$$

A $(n-9)(n^2+3)$

B $(n+9)(n^2+3)$

7 Consolidate the shared common factor to create 2 binomial factors

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

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

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

8 Consolidate the shared common factor to create 2 binomial factors

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

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

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