



## Factor the Quadratic Equation with Coefficient - Split X Terms To Partial

### Answer

1 Find common factors of the first 2 and last 2 terms

$$7w^2 + 14w + 9w + 18$$

A  $7w(w + 2) + 9(w + 2)$

B  $7w(9w + 9) - 2(9w + 9)$

2 Find common factors of the first 2 and last 2 terms

$$8x^2 + 48x + 5x + 30$$

A  $3x(8x + 6) - 5(8x + 6)$

B  $8x(x + 6) + 5(x + 6)$

3 Find common factors of the first 2 and last 2 terms

$$4p^2 + 24p + 5p + 30$$

A  $4p(p + 6) + 5(p + 6)$

B  $4p(4p + 5) - 6(4p + 5)$

4 Find common factors of the first 2 and last 2 terms

$$42t^2 + 30t + 49t + 35$$

A  $6t(7t + 7) - 5(7t + 7)$

B  $6t(7t + 5) + 7(7t + 5)$

5 Find common factors of the first 2 and last 2 terms

$$7m^2 + 42m + 8m + 48$$

A  $7m(2m + 6) + 8(2m + 6)$

B  $7m(m + 6) + 8(m + 6)$

6 Find common factors of the first 2 and last 2 terms

$$5t^2 + 20t + 2t + 8$$

A  $5t(4t + 2) - 4(4t + 2)$

B  $5t(t + 4) + 2(t + 4)$

7 Find common factors of the first 2 and last 2 terms

$$8p^2 + 24p + 9p + 27$$

A  $8p(8p + 9) - 3(8p + 9)$

B  $8p(p + 3) + 9(p + 3)$

8 Find common factors of the first 2 and last 2 terms

$$7t^2 + 63t + 8t + 72$$

A  $7t(7t - 9) - 8(7t - 9)$

B  $7t(t + 9) + 8(t + 9)$