



Factor the Quadratic Equation with Coefficient - Split X Terms To Answer

1 Find common factors of the first 2 and last 2 terms, and solve.

$$49p^2 + 35p + 21p + 15$$

- | | |
|----------------------|-----------------------|
| A $(p + 5)(56p + 3)$ | B $(56p + 5)(7p + 3)$ |
| C $(7p + 5)(7p + 3)$ | D $(7p + 5)(p + 3)$ |
| E $(15p + 5)(p - 3)$ | |

2 Find common factors of the first 2 and last 2 terms, and solve.

$$6t^2 + 8t - 9t - 12$$

- | | |
|----------------------|-----------------------|
| A $(3t - 4)(t + 3)$ | B $(2t - 4)(23t - 3)$ |
| C $(3t + 4)(2t - 3)$ | D $(1t - 4)(3t + 3)$ |
| E $(12t + 4)(t - 3)$ | |

3 Find common factors of the first 2 and last 2 terms, and solve.

$$56x^2 + 49x + 48x + 42$$

- | | |
|-----------------------|-----------------------|
| A $(97x - 7)(8x + 6)$ | B $(42x + 7)(x - 6)$ |
| C $(7x - 7)(42x + 6)$ | D $(7x + 7)(42x + 6)$ |
| E $(8x + 7)(7x + 6)$ | |

4 Find common factors of the first 2 and last 2 terms, and solve.

$$14m^2 + 35m + 12m + 30$$

- | | |
|-----------------------|-----------------------|
| A $(47m + 5)(2m + 6)$ | B $(7m + 5)(72m - 6)$ |
| C $(7m + 5)(m + 6)$ | D $(2m + 5)(7m + 6)$ |
| E $(30m + 5)(m - 6)$ | |

5 Find common factors of the first 2 and last 2 terms, and solve.

$$25m^2 + 40m - 20m - 32$$

- | | |
|-----------------------|-----------------------|
| A $(5m + 8)(m + 4)$ | B $(20m - 8)(5m + 4)$ |
| C $(5m + 8)(5m - 4)$ | D $(20m + 8)(5m - 4)$ |
| E $(5m - 8)(55m - 4)$ | |

6 Find common factors of the first 2 and last 2 terms, and solve.

$$27m^2 + 63m + 12m + 28$$

- | | |
|----------------------|-----------------------|
| A $(9m + 7)(m + 4)$ | B $(75m - 7)(3m + 4)$ |
| C $(3m + 7)(9m + 4)$ | D $(75m + 7)(3m + 4)$ |
| E $(m - 7)(75m + 4)$ | |

7 Find common factors of the first 2 and last 2 terms, and solve.

$$45y^2 + 25y - 18y - 10$$

- | | |
|-----------------------|-----------------------|
| A $(9y + 5)(5y - 2)$ | B $(5y - 5)(10y + 2)$ |
| C $(5y - 5)(59y - 2)$ | D $(y + 5)(7y - 2)$ |
| E $(7y - 5)(9y + 2)$ | |

8 Find common factors of the first 2 and last 2 terms, and solve.

$$14r^2 + 6r + 49r + 21$$

- | | |
|-----------------------|----------------------|
| A $(55r + 3)(7r + 7)$ | B $(r + 3)(55r + 7)$ |
| C $(r - 3)(55r + 7)$ | D $(7r + 3)(2r + 7)$ |
| E $(55r - 3)(7r + 7)$ | |