



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.

$$10y^2 + 15y - 14y - 21$$

A $(5y + 3)(y + 7)$

B $(y - 3)(1y + 7)$

C $(2y + 3)(5y - 7)$

D $(1y + 3)(2y - 7)$

E $(5y - 3)(52y - 7)$

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

$$35n^2 + 63n + 15n + 27$$

A $(5n + 9)(7n + 3)$

B $(n + 9)(78n + 3)$

C $(27n + 9)(n - 3)$

D $(27n - 9)(n + 3)$

E $(7n - 9)(27n + 3)$

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

$$10m^2 + 4m - 45m - 18$$

A $(2m - 2)(25m - 9)$

B $(5m + 2)(2m - 9)$

C $(41m + 2)(5m - 9)$

D $(2m - 2)(18m + 9)$

E $(2m + 2)(m + 9)$

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

$$12p^2 + 14p - 18p - 21$$

A $(6p + 7)(2p - 3)$

B $(6p - 7)(p + 3)$

C $(2p - 7)(26p - 3)$

D $(2p + 7)(p + 3)$

E $(4p + 7)(6p - 3)$

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

$$30t^2 + 25t + 42t + 35$$

A $(t - 5)(67t + 7)$

B $(35t + 5)(t - 7)$

C $(35t - 5)(t + 7)$

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

E $(5t + 5)(t + 7)$

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

$$45n^2 + 54n - 35n - 42$$

A $(9n - 6)(95n - 7)$

B $(9n + 6)(42n - 7)$

C $(9n + 6)(n + 7)$

D $(42n - 6)(n + 7)$

E $(5n + 6)(9n - 7)$

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

$$10z^2 + 45z + 12z + 54$$

A $(2z + 9)(5z + 6)$

B $(5z + 9)(52z - 6)$

C $(5z - 9)(54z + 6)$

D $(57z + 9)(2z + 6)$

E $(54z + 9)(z - 6)$

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

$$35y^2 + 21y + 40y + 24$$

A $(y - 3)(61y + 8)$

B $(7y - 3)(24y + 8)$

C $(y + 3)(61y + 8)$

D $(61y - 3)(5y + 8)$

E $(5y + 3)(7y + 8)$