



Factor the Quadratic Equation with Coefficient - Standard Form To Common

Factor Removed

1 Remove a common factor from this quadratic to make it easier to factor

$$-7t^2 + 63t - 98$$

- | | |
|-----------------------|-----------------------|
| A $7(t^2 + 9t + 14)$ | B $7(t^2 - 9t + 14)$ |
| C $-7(t^2 - 9t - 14)$ | D $-7(t^2 - 14t - 9)$ |
| E $-7(t^2 + 9t - 14)$ | |

2 Remove a common factor from this quadratic to make it easier to factor

$$-5z^2 - 25z + 70$$

- | | |
|-----------------------|-----------------------|
| A $-5(z^2 - 14z - 5)$ | B $-5(z^2 - 5z - 14)$ |
| C $5(z^2 - 5z + 14)$ | D $5(z^2 + 5z + 14)$ |
| E $-5(z^2 - 5z + 14)$ | |

3 Remove a common factor from this quadratic to make it easier to factor

$$-4m^2 - 4m + 48$$

- | | |
|-----------------------|-----------------------|
| A $-4(m^2 - 1m + 12)$ | B $-4(m^2 - 12m - 1)$ |
| C $-4(m^2 - 1m - 12)$ | D $4(m^2 - 1m + 12)$ |
| E $4(m^2 + 1m + 12)$ | |

4 Remove a common factor from this quadratic to make it easier to factor

$$-4y^2 + 12y + 112$$

- | | |
|-----------------------|-----------------------|
| A $-4(y^2 - 3y - 28)$ | B $4(y^2 + 3y + 28)$ |
| C $-4(y^2 + 3y + 28)$ | D $-4(y^2 - 28y - 3)$ |
| E $4(y^2 - 3y + 28)$ | |

5 Remove a common factor from this quadratic to make it easier to factor

$$-3z^2 - 30z - 48$$

- | | |
|------------------------|------------------------|
| A $3(z^2 + 10z + 16)$ | B $3(z^2 - 10z + 16)$ |
| C $-3(z^2 - 10z - 16)$ | D $-3(z^2 - 16z - 10)$ |
| | |

6 Remove a common factor from this quadratic to make it easier to factor

$$-5z^2 - 35z - 50$$

- | | |
|----------------------|-----------------------|
| A $5(z^2 + 7z + 10)$ | B $-5(z^2 - 7z - 10)$ |
| C $5(z^2 - 7z + 10)$ | D $-5(z^2 - 10z - 7)$ |
| | |

7 Remove a common factor from this quadratic to make it easier to factor

$$-4p^2 + 24p - 32$$

- | | |
|----------------------|----------------------|
| A $4(p^2 + 6p + 8)$ | B $-4(p^2 - 6p - 8)$ |
| C $-4(p^2 - 8p - 6)$ | D $4(p^2 - 6p + 8)$ |
| E $-4(p^2 + 6p - 8)$ | |

8 Remove a common factor from this quadratic to make it easier to factor

$$-3r^2 + 33r - 72$$

- | | |
|------------------------|------------------------|
| A $-3(r^2 + 11r - 24)$ | B $3(r^2 - 11r + 24)$ |
| C $-3(r^2 - 24r - 11)$ | D $-3(r^2 - 11r - 24)$ |
| E $3(r^2 + 11r + 24)$ | |