



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

$$-2y^2 + 12y - 16$$

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

2 Remove a common factor from this quadratic to make it easier to factor $-4r^2 - 44r - 112$

A	$-4(r^2 + 11r + 28)$	B	$-4(r^2 - 11r - 28)$
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|---|----------------------|---|---------------------|
| C | $-4(r^2 - 28r - 11)$ | D | $4(r^2 + 11r + 28)$ |
| E | $4(r^2 - 11r + 28)$ | | |

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

$$-6n^2 - 54n - 108$$

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|---|---------------------|---|---------------------|
| A | $6(n^2 - 9n + 18)$ | B | $-6(n^2 - 9n - 18)$ |
| C | $-6(n^2 - 18n - 9)$ | D | $6(n^2 + 9n + 18)$ |
| E | $-6(n^2 + 9n + 18)$ | | |

4 Remove a common factor from this quadratic to make it easier to factor $-2r^2 - 24r - 54$

A	$2(r^2 - 12r + 27)$	B	$-2(r^2 + 12r + 27)$
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|---|----------------------|---|---------------------|
| C | $-2(r^2 - 12r - 27)$ | D | $2(r^2 + 12r + 27)$ |
| E | $-2(r^2 - 27r - 12)$ | | |

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

$$-5r^2 + 35r - 50$$

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

6 Remove a common factor from this quadratic to make it easier to factor $-6n^2 - 6n + 120$

A	$6(n^2 - 1n + 20)$	B	$-6(n^2 + 1n - 20)$
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|---|---------------------|---|---------------------|
| C | $-6(n^2 - 1n - 20)$ | D | $-6(n^2 - 20n - 1)$ |
| E | $6(n^2 + 1n + 20)$ | | |

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

$$-8t^2 - 40t - 48$$

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|---|--------------------|---|--------------------|
| A | $-8(t^2 + 5t + 6)$ | B | $-8(t^2 - 5t - 6)$ |
| C | $8(t^2 + 5t + 6)$ | D | $8(t^2 - 5t + 6)$ |
| E | $-8(t^2 - 6t - 5)$ | | |

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

$$-2x^2 + 12x + 32$$

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|---|---------------------|---|---------------------|
| A | $-2(x^2 - 6x - 16)$ | B | $2(x^2 + 6x + 16)$ |
| C | $2(x^2 - 6x + 16)$ | D | $-2(x^2 - 16x - 6)$ |