



Factor the Quadratic Equation with Coefficient - Common Factor Removed

To Answer

1 Factor the quadratic now that the common factor has been removed

$$-3(z^2 + 14z + 48)$$

- | | | | |
|---|----------------|---|------------------|
| A | $3(z-8)(z+6)$ | B | $-3(z+8)(z-6)$ |
| C | $-3(z+8)(z+6)$ | D | $3(z+144)(z-48)$ |
| E | $-3(z-8)(z-6)$ | | |

2 Factor the quadratic now that the common factor has been removed

$$-4(x^2 + 10x + 24)$$

- | | | | |
|---|----------------|---|-----------------|
| A | $-4(x-4)(x-6)$ | B | $-4(x+4)(x+6)$ |
| C | $4(x-4)(x+6)$ | D | $4(x+96)(x-24)$ |
| E | $-4(x+4)(x-6)$ | | |

3 Factor the quadratic now that the common factor has been removed

$$-7(y^2 - 8y + 15)$$

- | | | | |
|---|----------------|---|------------------|
| A | $-7(y-3)(y-5)$ | B | $7(y+105)(y-15)$ |
| C | $-7(y+3)(y-5)$ | D | $7(y-3)(y+5)$ |
| E | $-7(y+3)(y+5)$ | | |

4 Factor the quadratic now that the common factor has been removed

$$-8(q^2 + 7q + 10)$$

- | | | | |
|---|-----------------|---|----------------|
| A | $-8(q+2)(q+5)$ | B | $8(q-2)(q+5)$ |
| C | $8(q+80)(q-10)$ | D | $-8(q-2)(q-5)$ |
| E | $-8(q+2)(q-5)$ | | |

5 Factor the quadratic now that the common factor has been removed

$$-2(z^2 - 8z + 15)$$

- | | | | |
|---|----------------|---|-----------------|
| A | $-2(z-5)(z-3)$ | B | $-2(z+5)(z+3)$ |
| C | $-2(z+5)(z-3)$ | D | $2(z+30)(z-15)$ |
| E | $2(z-5)(z+3)$ | | |

6 Factor the quadratic now that the common factor has been removed

$$-2(y^2 + 9y + 18)$$

- | | | | |
|---|----------------|---|-----------------|
| A | $2(y-6)(y+3)$ | B | $-2(y-6)(y-3)$ |
| C | $-2(y+6)(y-3)$ | D | $2(y+36)(y-18)$ |
| E | $-2(y+6)(y+3)$ | | |

7 Factor the quadratic now that the common factor has been removed

$$-3(n^2 + 7n + 12)$$

- | | | | |
|---|-----------------|---|----------------|
| A | $3(n+36)(n-12)$ | B | $-3(n+3)(n-4)$ |
| C | $-3(n+3)(n+4)$ | D | $3(n-3)(n+4)$ |
| E | $-3(n-3)(n-4)$ | | |

8 Factor the quadratic now that the common factor has been removed

$$-2(r^2 - 11r + 30)$$

- | | | | |
|---|----------------|---|-----------------|
| A | $-2(r+6)(r-5)$ | B | $2(r-6)(r+5)$ |
| C | $-2(r-6)(r-5)$ | D | $2(r+60)(r-30)$ |
| E | $-2(r+6)(r+5)$ | | |