



Math worksheet on 'Algebraic Functions - Factor the Quadratic Equation (Level 2)'. Part of a broader unit on 'Polynomials and Quadratics - Practice'

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2 Which answer is the same expression as this

$$c^2 + 7c - 18$$

- | | | | |
|----------|--------------------|----------|-------------------|
| a | $(c - 9)(c + 2)$ | b | $(7c - 9)(c + 2)$ |
| c | $(18c - 9)(c + 2)$ | d | $(c + 9)(c - 2)$ |
| e | $(c + 9)(c + 2)$ | f | $(c - 9)(c - 2)$ |

4 Which answer is the same expression as this

$$x^2 - 12x + 27$$

- | | | | |
|----------|-------------------|----------|--------------------|
| a | $(x - 9)(x - 3)$ | b | $(27x - 9)(x + 3)$ |
| c | $(6x - 9)(x + 3)$ | d | $(x - 9)(27x + 3)$ |
| e | $(x + 9)(x - 3)$ | f | $(x + 9)(x + 3)$ |

6 Which answer is the same expression as this

$$y^2 + 2y - 8$$

- | | | | |
|----------|-------------------|----------|------------------|
| a | $(y - 2)(y + 4)$ | b | $(y - 2)(y - 4)$ |
| c | $(8y - 2)(y + 4)$ | d | $(y + 2)(y - 4)$ |
| e | $(2y - 2)(y + 4)$ | f | $(y + 2)(y + 4)$ |

1 Which answer is the same expression as this

$$x^2 + 2x - 24$$

- | | | | |
|----------|--------------------|----------|------------------|
| a | $(2x - 4)(x + 6)$ | b | $(x - 4)(x - 6)$ |
| c | $(x - 4)(x + 6)$ | d | $(x + 4)(x - 6)$ |
| e | $(24x - 4)(x + 6)$ | f | $(x + 4)(x + 6)$ |

3 Which answer is the same expression as this

$$b^2 - 64$$

- | | | | |
|----------|--------------------|----------|--------------------|
| a | $(b + 8)(b - 8)$ | b | $(b + 16)(b - 16)$ |
| c | $(64b - 8)(b + 8)$ | d | $(b + 8)(b + 8)$ |
| e | $(b - 8)(b - 8)$ | f | $(b - 16)(b + 16)$ |

5 Which answer is the same expression as this

$$z^2 + 4z - 32$$

- | | | | |
|----------|------------------|----------|--------------------|
| a | $(z - 8)(z + 4)$ | b | $(32z - 8)(z + 4)$ |
| c | $(z + 8)(z + 4)$ | d | $(z - 8)(z - 4)$ |
| e | $(z + 8)(z - 4)$ | f | $(4z - 8)(z + 4)$ |

7 Which answer is the same expression as this

$$n^2 - 4$$

- | | | | |
|----------|-------------------|----------|------------------|
| a | $(n + 2)(n - 2)$ | b | $(n + 4)(n - 4)$ |
| c | $(n - 2)(n - 2)$ | d | $(n + 2)(n + 2)$ |
| e | $(4n - 2)(n + 2)$ | f | $(n - 4)(n + 4)$ |