



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

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1 Which answer is the same expression as this

$$c^2 - 16$$

a	$(c + 8)(c - 8)$	b	$(c - 4)(c - 4)$
c	$(16c - 4)(c + 4)$	d	$(c + 4)(c - 4)$
e	$(c + 4)(c + 4)$	f	$(c - 8)(c + 8)$

2 Which answer is the same expression as this

$$r^2 + 2r - 35$$

a	$(r - 7)(r - 5)$	b	$(r + 7)(r - 5)$
c	$(2r - 7)(r + 5)$	d	$(r - 7)(r + 5)$
e	$(r + 7)(r + 5)$	f	$(35r - 7)(r + 5)$

3 Which answer is the same expression as this

$$y^2 - 15y + 54$$

a	$(y + 6)(y + 9)$	b	$(y - 6)(54y + 9)$
c	$(y - 6)(y - 9)$	d	$(3y - 6)(y + 9)$
e	$(y + 6)(y - 9)$	f	$(54y - 6)(y + 9)$

4 Which answer is the same expression as this

$$d^2 + 6d - 16$$

a	$(d - 2)(d - 8)$	b	$(6d - 2)(d + 8)$
c	$(d + 2)(d + 8)$	d	$(d - 2)(d + 8)$
e	$(d + 2)(d - 8)$	f	$(16d - 2)(d + 8)$

5 Which answer is the same expression as this

$$c^2 - 11c + 24$$

a	$(c - 3)(24c + 8)$	b	$(c + 3)(c - 8)$
c	$(c + 3)(c + 8)$	d	$(24c - 3)(c + 8)$
e	$(c - 3)(c - 8)$	f	$(5c - 3)(c + 8)$

6 Which answer is the same expression as this

$$n^2 + 1n - 20$$

a	$(n - 4)(n - 5)$	b	$(n + 4)(n + 5)$
c	$(n + 4)(n - 5)$	d	$(n - 4)(n + 5)$
e	$(20n - 4)(n + 5)$	f	$(1n - 4)(n + 5)$

7 Which answer is the same expression as this

$$y^2 - 4y - 12$$

a	$(y + 6)(y - 2)$	b	$(12y - 6)(y + 2)$
c	$(4y - 6)(y + 2)$	d	$(y - 6)(y - 2)$
e	$(y + 6)(y + 2)$	f	$(y - 6)(y + 2)$