



Math worksheet on 'Algebraic Functions - Factor the Quadratic Equation with Coefficient (Level 1)'. Part of a broader unit on 'Polynomials and Quadratics - Advanced'

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Which answer is the same expression as this $81p^2 + 81p + 18$

a $(9p + 3)(p + 6)$	b $(18p - 3)(p + 6)$
c $(9p + 3)(99p - 6)$	d $(9p + 3)(9p + 6)$
e $(81p - 3)(9p + 6)$	f $(9p + 3)(p + 6)$

1

Which answer is the same expression as this $12d^2 + 36d + 24$

a $(24d - 8)(d + 3)$	b $(4d + 8)(3d + 3)$
c $(4d + 8)(d + 3)$	d $(3d + 8)(34d - 3)$
e $(36d - 8)(4d + 3)$	f $(3d + 8)(d + 3)$

3

Which answer is the same expression as this $10r^2 + 37r + 30$

a $(37r - 5)(2r + 6)$	b $(5r + 5)(r + 6)$
c $(5r + 5)(52r - 6)$	d $(2r + 5)(r + 6)$
e $(2r + 5)(5r + 6)$	f $(30r - 5)(r + 6)$

4

Which answer is the same expression as this $30y^2 + 87y + 63$

a $(6y + 9)(y + 7)$	b $(6y + 9)(5y + 7)$
c $(5y + 9)(56y - 7)$	d $(5y + 9)(y + 7)$
e $(87y - 9)(6y + 7)$	f $(63y - 9)(y + 7)$

5

Which answer is the same expression as this $24b^2 + 48b + 24$

a $(3b + 8)(38b - 3)$	b $(8b + 8)(3b + 3)$
c $(48b - 8)(8b + 3)$	d $(8b + 8)(b + 3)$
e $(3b + 8)(b + 3)$	f $(24b - 8)(b + 3)$

6

Which answer is the same expression as this $3p^2 + 31p + 56$

a $(31p - 8)(6p + 7)$	b $(56p - 8)(p + 7)$
c $(p + 8)(p + 7)$	d $(3p + 8)(36p - 7)$
e $(3p + 8)(p + 7)$	f $(p + 8)(3p + 7)$

7

Which answer is the same expression as this $6y^2 + 37y + 45$

a $(3y + 5)(2y + 9)$	b $(37y - 5)(3y + 9)$
c $(3y + 5)(y + 9)$	d $(2y + 5)(23y - 9)$
e $(45y - 5)(y + 9)$	f $(2y + 5)(y + 9)$