



Algebraic Functions - Factor the Quadratic Equation with Coefficient

1 Which answer is the same expression as this $12c^2 + 60c + 72$

A $(3c + 8)(c + 9)$

B $(4c + 8)(3c + 9)$

C $(4c + 8)(c + 9)$

D $(60c - 8)(4c + 9)$

E $(72c - 8)(c + 9)$

F $(3c + 8)(34c - 9)$

2 Which answer is the same expression as this $24z^2 - 0z - 24$

A $(0z - 4)(4z + 6)$

B $(4z - 4)(z + 6)$

C $(6z + 4)(z + 6)$

D $(4z + 4)(6z - 6)$

E $(24z - 4)(z + 6)$

F $(6z - 4)(64z - 6)$

3 Which answer is the same expression as this $12m^2 + 6m - 18$

A $(6m - 9)(6m + 2)$

B $(2m + 9)(m + 2)$

C $(2m - 9)(26m - 2)$

D $(18m - 9)(m + 2)$

E $(6m + 9)(2m - 2)$

F $(6m - 9)(m + 2)$

4 Which answer is the same expression as this $18m^2 + 42m + 12$

A $(42m - 6)(3m + 2)$

B $(6m + 6)(m + 2)$

C $(3m + 6)(m + 2)$

D $(3m + 6)(6m + 2)$

E $(12m - 6)(m + 2)$

F $(6m + 6)(63m - 2)$

5 Which answer is the same expression as this $24x^2 - 6x - 18$

A $(6x - 6)(8x + 3)$

B $(8x + 6)(3x - 3)$

C $(3x - 6)(38x - 3)$

D $(3x + 6)(x + 3)$

E $(18x - 6)(x + 3)$

F $(8x - 6)(x + 3)$

6 Which answer is the same expression as this $24m^2 + 26m - 63$

A $(4m + 9)(6m - 7)$

B $(6m - 9)(64m - 7)$

C $(4m - 9)(m + 7)$

D $(63m - 9)(m + 7)$

E $(6m + 9)(m + 7)$

F $(26m - 9)(4m + 7)$

7 Which answer is the same expression as this

$$72n^2 + 91n + 24$$

A $(8n + 3)(n + 8)$

B $(9n + 3)(n + 8)$

C $(91n - 3)(8n + 8)$

D $(9n + 3)(98n - 8)$

E $(24n - 3)(n + 8)$

F $(8n + 3)(9n + 8)$

8 Which answer is the same expression as this $40b^2 + 33b - 18$

A $(5b - 6)(b + 3)$

B $(18b - 6)(b + 3)$

C $(5b + 6)(8b - 3)$

D $(8b - 6)(85b - 3)$

E $(33b - 6)(5b + 3)$

F $(8b + 6)(b + 3)$