



Algebraic Functions - Factor the Quadratic Equation with Coefficient

1 Which answer is the same expression as this $42y^2 + 59y + 20$

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|-----------------------|-----------------------|
| A $(7y + 5)(y + 4)$ | B $(20y - 5)(y + 4)$ |
| C $(6y + 5)(y + 4)$ | D $(7y + 5)(76y - 4)$ |
| E $(59y - 5)(6y + 4)$ | F $(6y + 5)(7y + 4)$ |

2 Which answer is the same expression as this $48d^2 + 72d + 24$

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|-----------------------|----------------------|
| A $(72d - 6)(6d + 4)$ | B $(8d + 6)(d + 4)$ |
| C $(8d + 6)(86d - 4)$ | D $(24d - 6)(d + 4)$ |
| E $(6d + 6)(8d + 4)$ | F $(6d + 6)(d + 4)$ |

3 Which answer is the same expression as this $12c^2 + 50c + 42$

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|-----------------------|-----------------------|
| A $(42c - 6)(c + 7)$ | B $(2c + 6)(c + 7)$ |
| C $(6c + 6)(c + 7)$ | D $(2c + 6)(6c + 7)$ |
| E $(6c + 6)(62c - 7)$ | F $(50c - 6)(2c + 7)$ |

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

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|-----------------------|-----------------------|
| A $(3b + 8)(b + 3)$ | B $(8b + 8)(3b + 3)$ |
| C $(3b + 8)(38b - 3)$ | D $(48b - 8)(8b + 3)$ |
| E $(24b - 8)(b + 3)$ | F $(8b + 8)(b + 3)$ |

5 Which answer is the same expression as this $2m^2 + 20m + 18$

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|-----------------------|-----------------------|
| A $(m + 9)(m + 2)$ | B $(20m - 9)(4m + 2)$ |
| C $(2m + 9)(m + 2)$ | D $(m + 9)(2m + 2)$ |
| E $(2m + 9)(24m - 2)$ | F $(18m - 9)(m + 2)$ |

6 Which answer is the same expression as this $25d^2 + 70d + 45$

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|----------------------|-----------------------|
| A $(45d - 5)(d + 9)$ | B $(5d + 5)(d + 9)$ |
| C $(5d + 5)(5d + 9)$ | D $(70d - 5)(5d + 9)$ |
| E $(5d + 5)(d + 9)$ | F $(5d + 5)(55d - 9)$ |

7 Which answer is the same expression as this $48y^2 + 66y + 21$

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|-----------------------|----------------------|
| A $(6y + 7)(68y - 3)$ | B $(21y - 7)(y + 3)$ |
| C $(8y + 7)(y + 3)$ | D $(8y + 7)(6y + 3)$ |
| E $(66y - 7)(8y + 3)$ | F $(6y + 7)(y + 3)$ |

8 Which answer is the same expression as this $54n^2 + 87n + 35$

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|-----------------------|-----------------------|
| A $(9n + 7)(n + 5)$ | B $(6n + 7)(n + 5)$ |
| C $(87n - 7)(9n + 5)$ | D $(35n - 7)(n + 5)$ |
| E $(9n + 7)(6n + 5)$ | F $(6n + 7)(69n - 5)$ |