



Algebraic Functions - Simplify to Bracketed Terms, Different Variables, with Coefficient

1 Which answer is the same expression as this

$$42qx + 36x - 56q - 48$$

- | | |
|----------------------|-----------------------|
| A $(7q + 6)(6x - 8)$ | B $(7q - 6)(6x - 8)$ |
| C $(7q - 6)(6x + 8)$ | D $(8q - 7)(6x + 36)$ |
| E $(7q + 7)(6x - 6)$ | |

2 Which answer is the same expression as this

$$24zy - 18y - 12z + 9$$

- | | |
|----------------------|-----------------------|
| A $(4z - 3)(6y - 3)$ | B $(z - 4)(6y - 3)$ |
| C $(4z + 3)(6y - 3)$ | D $(6z + 24)(4y - 3)$ |
| E $(4z - 3)(6y + 3)$ | |

3 Which answer is the same expression as this

$$6pt - 6t - 18p + 18$$

- | | |
|----------------------|----------------------|
| A $(3p + 3)(3t - 3)$ | B $(3p - 3)(2t - 6)$ |
| C $(2p + 6)(3t - 3)$ | D $(3p - 3)(2t + 6)$ |
| E $(2p + 6)(3t - 6)$ | |

4 Which answer is the same expression as this

$$28qx + 14x + 20q + 10$$

- | | |
|------------------------|-----------------------|
| A $(7q + 28)(4x + 14)$ | B $(4q + 2)(7x - 5)$ |
| C $(4q + 2)(7x + 5)$ | D $(7q + 28)(4x + 2)$ |
| E $(5q + 4)(2x + 14)$ | |

5 Which answer is the same expression as this

$$21tx + 35x - 15t - 25$$

- | | |
|----------------------|----------------------|
| A $(3t - 5)(7x - 5)$ | B $(3t + 3)(5x - 5)$ |
| C $(t - 3)(7x + 5)$ | D $(3t + 5)(7x - 5)$ |
| E $(3t - 5)(7x + 5)$ | |

6 Which answer is the same expression as this

$$56pm + 14m - 72p - 18$$

- | | |
|----------------------|----------------------|
| A $(8p + 8)(2m - 2)$ | B $(8p + 2)(7m - 9)$ |
| C $(8p - 2)(7m + 9)$ | D $(p - 8)(7m + 2)$ |
| E $(9p + 8)(m - 72)$ | |

7 Which answer is the same expression as this

$$56yq + 35q - 16y - 10$$

- | | |
|----------------------|------------------------|
| A $(8y + 5)(7q - 2)$ | B $(8y - 5)(7q + 2)$ |
| C $(2y + 8)(q - 16)$ | D $(7y + 56)(8q - 35)$ |
| E $(y - 8)(7q + 5)$ | |

8 Which answer is the same expression as this

$$48pr + 24r - 32p - 16$$

- | | |
|----------------------|-----------------------|
| A $(8p + 4)(6r - 4)$ | B $(6p + 48)(8r + 4)$ |
| C $(p - 8)(6r + 4)$ | D $(8p - 4)(6r - 4)$ |
| E $(8p - 4)(6r + 4)$ | |