MULTIPLYING BINOMIALS

Directions: Find the product of each pair of binomials below. Combine all like terms and write the product in simplest form on the line provided next to each expression.

Example: \((2x + 5)(4x + 1) = 8x^2 + 2x + 20x + 5 = 8x^2 + 22x + 5\)

1) \((2x + 2)(4x + 3) = \) __________________________

2) \((3x + 6)(2x + 7) = \) __________________________

3) \((9x + 8)(3x + 2) = \) __________________________

4) \((4x + 1)(5x + 9) = \) __________________________

5) \((4x + 5)(4x + 5) = \) __________________________

6) \((8x + 2)(2x + 7) = \) __________________________

7) \((2x + 4)(6x + 3) = \) __________________________

8) \((9x + 1)(x + 1) = \) __________________________

9) \((3x + 3)(x + 7) = \) __________________________

10) \((6x + 8)(7x + 9) = \) __________________________
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Example: \((2x + 5)(4x + 1) = 8x^2 + 2x + 20x + 5 = 8x^2 + 22x + 5\)

1) \((2x + 2)(4x + 3) = 8x^2 + 14x + 6\)

2) \((3x + 6)(2x + 7) = 6x^2 + 33x + 42\)

3) \((9x + 8)(3x + 2) = 27x^2 + 42x + 16\)

4) \((4x + 1)(5x + 9) = 20x^2 + 41x + 9\)

5) \((4x + 5)(4x + 5) = 16x^2 + 40x + 25\)

6) \((8x + 2)(2x + 7) = 16x^2 + 60x + 14\)

7) \((2x + 4)(6x + 3) = 12x^2 + 30x + 12\)

8) \((9x + 1)(x + 1) = 9x^2 + 10x + 1\)

9) \((3x + 3)(x + 7) = 3x^2 + 24x + 21\)

10) \((6x + 8)(7x + 9) = 42x^2 + 110x + 72\)