Name: _____

Adding and Multiplying Binomials

Simplify:

1. $(2x^2 + 7) + (x + 4x^2)$

2. $(3x - 7)(2x^2 - 9)$

3. $3(x^2 + 7x) + (2x + 3)$

4. $(x + 4)(2x + 9)$

5. $(5x - x^2) + (3x^2 + 2x)$

6. $(4x + 9)(x^2 + 2x)$

7. $(x - 9)(3x^2 - 9)$

8. $(3x - 7) + (2x^2 + 9)$

9. $(2x^2 + 16)(x - 11)$

10. $(4x + 16) + (x^2 + 8x)$

Adding and Multiplying Binomials

Answers

1   $(2x^2 + 7) + (x + 4x^2)$

2   $(3x - 7)(2x^2 - 9)$

$6x^2 + x + 7$

$6x^3 - 14x^2 - 27x + 63$

3   $3(x^2 + 7x) + (2x + 3)$

4   $(x + 4)(2x + 9)$

$3x^2 + 23x + 3$

$2x^2 + 17x + 36$

5   $(5x - x^2) + (3x^2 + 2x)$

6   $(4x + 9)(x^2 + 2x)$

$2x^2 + 7x$

$4x^3 + 17x^2 + 18x$

7   $(x - 9)(3x^2 - 9)$

8   $(3x - 7) + (2x^2 + 9)$

$3x^3 - 27x^2 - 9x + 81$

$2x^2 + 3x + 2$

9   $(2x^2 + 16)(x - 11)$

10   $(4x + 16) + (x^2 + 8x)$

$2x^3 - 22x^2 + 16x - 176$

$x^2 + 12x + 16$