

SECONDARY MATH II
POLYNOMIALS

NAME _____
DATE _____
CLASS _____

Adding and Subtracting Polynomials

Find each sum.

1.
$$\begin{array}{r} 5x - 2 \\ (+) \underline{4x + 6} \end{array}$$

2.
$$\begin{array}{r} 2y + 4 \\ (+) \underline{y - 1} \end{array}$$

3.
$$\begin{array}{r} 4x - 8 \\ (+) \underline{2x + 5} \end{array}$$

4.
$$\begin{array}{r} 2x^2 - 7x - 4 \\ (+) \underline{x^2 + 3x + 2} \end{array}$$

5.
$$\begin{array}{r} n^2 + 4n + 3 \\ (+) \underline{3n^2 + 4n - 4} \end{array}$$

6.
$$\begin{array}{r} 2x^2 + 3xy - y^2 \\ (+) \underline{2x^2 - 2xy - 4y^2} \end{array}$$

7.
$$(2x^2 - 2x - 4) + (x^2 - 3x + 2)$$

8.
$$(x^2 + 2x + 1) + (3x^2 + 4x + 1)$$

9.
$$(2a^2 + 8a + 6) + (a^2 + 3a - 4)$$

10.
$$(x^2 + x - 12) + (x^2 - 3x)$$

11.
$$(3x^2 + 8x + 4) + (4x^2 - 1)$$

12.
$$(x^2 - 4x - 5) + (x^2 + 4x)$$

Find each difference.

13.
$$\begin{array}{r} 7n + 2 \\ (-) \underline{n + 1} \end{array}$$

14.
$$\begin{array}{r} 3x - 3 \\ (-) \underline{2x + 2} \end{array}$$

15.
$$\begin{array}{r} 2y + 5 \\ (-) \underline{y - 1} \end{array}$$

16.
$$\begin{array}{r} 4x^2 + 7x - 2 \\ (-) \underline{2x^2 - 6x + 4} \end{array}$$

17.
$$\begin{array}{r} 2x^2 - 9x - 5 \\ (-) \underline{x^2 - 5x - 6} \end{array}$$

18.
$$\begin{array}{r} 5m^2 - 4m - 1 \\ (-) \underline{4m^2 + 8m + 4} \end{array}$$

19.
$$(6x - 2) - (8x + 3)$$

20.
$$(3x^2 + 3x - 6) - (2x^2 - 2x - 4)$$

21.
$$(6x^2 + 2x - 8) - (4x^2 + 8x + 4)$$

22.
$$(2a^2 + 6a + 4) - (a^2 - 3)$$

23.
$$(2x^2 - 8x + 3) - (-x^2 + 2x)$$

24.
$$(3x^2 - 5xy - 2y^2) - (2x^2 + y^2)$$