

Name: Key

Show work needed to justify your answer.

Date: \_\_\_\_\_

HW # 56a: Algebra 1 - Standard 36 - Add &amp; Subtract Polynomials

5 points

Find each sum or difference.

23.  $(5f + g - 2) + (-2f + 3)$

$$\underline{5f} + \underline{g} - \underline{2} - \underline{2f} + \underline{3}$$

$$3f + g + 1$$

24.  $(6k^2 + 2k + 9) + (4k^2 - 5k)$

$$\underline{6k^2} + \underline{2k} + \underline{9} + \underline{4k^2} - \underline{5k}$$

$$10k^2 - 3k + 9$$

25.  $(2c^2 + 6c + 4) + (5c^2 - 7)$

$$\underline{2c^2} + \underline{6c} + \underline{4} + \underline{5c^2} - \underline{7}$$

$$7c^2 + 6c - 3$$

26.  $(2x + 3x^2) - (7 - 8x^2)$

$$\underline{2x} + \underline{3x^2} - \underline{7} + \underline{8x^2}$$

$$11x^2 + 2x - 7$$

27.  $(3c^3 - c + 11) - (c^2 + 2c + 8)$

$$\underline{3c^3} - \underline{c} + \underline{11} - \underline{c^2} - \underline{2c} - \underline{8}$$

$$3c^3 - c^2 - 3c + 3$$

28.  $(z^2 + z) + (z^2 - 11)$

$$\underline{z^2} + \underline{z} + \underline{z^2} - \underline{11}$$

$$2z^2 + z - 11$$

29.  $(2x - 2y + 1) - (3y + 4x)$

$$\underline{2x} - \underline{2y} + \underline{1} - \underline{3y} - \underline{4x}$$

$$-2x - 5y + 1$$

30.  $(4a - 5b^2 + 3) + (6 - 2a + 3b^2)$

$$\underline{4a} - \underline{5b^2} + \underline{3} + \underline{6} - \underline{2a} + \underline{3b^2}$$

$$2a - 2b^2 + 9$$

31.  $(x^2y - 3x^2 + y) + (3y - 2x^2y)$

$$\underline{1x^2y} - \underline{3x^2} + \underline{y} + \underline{3y} - \underline{2x^2y}$$

$$-1x^2y - 3x^2 + 4y$$

32.  $(-8xy + 3x^2 - 5y) + (4x^2 - 2y + 6xy)$

$$\underline{-8xy} + \underline{3x^2} - \underline{5y} + \underline{4x^2} - \underline{2y} + \underline{6xy}$$

$$-2xy + 7x^2 - 7y$$

33.  $(5n - 2p^2 + 2np) - (4p^2 + 4n)$

$$\underline{5n} - \underline{2p^2} + \underline{2np} - \underline{4p^2} - \underline{4n}$$

$$n - 6p^2 + 2np$$

34.  $(4rxt - 8r^2x + x^2) - (6rx^2 + 5rxt - 2x^2)$

$$\underline{4rxt} - \underline{8r^2x} + \underline{x^2} - \underline{6rx^2} - \underline{5rxt} + \underline{2x^2}$$

$$-1rxt - 8r^2x + 3x^2 - 6rx^2$$