

Name \_\_\_\_\_

Class \_\_\_\_\_

Date \_\_\_\_\_

TEK: A.10(A) Add and subtract polynomials of degree one and degree two

**Independent Practice**  
Adding and Subtracting Polynomials

In the following exercises, add or subtract the monomials.

1.  $28x - (-12x)$   
 $28x + 12x$   
 $40x$

2.  $3m + 9m$   
 $12m$

3.  $2a^2 + b^2 - 6a^2$   
 $-4a^2 + b^2$

4.  $xy^2 - 5x - 5y^2$   
 $xy^2 - 5x - 5y^2$

5.  $pq^2 - 4p - 3q^2$   
 $pq^2 - 4p - 3q^2$

6.  $x^2y - 3x + 7xy^2$   
 $x^2y - 3x + 7xy^2$

7.  $14x - 3y - 13x$   
 $x - 3y$

8. Subtract  $2p^2$  from  $-7p^2$   
 $-7p^2 - 2p^2$   
 $-9p^2$



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In the following exercises, add and subtract polynomials

9.  $(5x^2 + 12x + 4) + (6x^2 - 8x + 7)$

$$11x^2 + 4x + 11$$

10.  $(y^2 + 6y + 8) + (-4y^2 + 11y - 9)$

$$-3y^2 + 17y - 1$$

11.  $(8a^2 - 5a + 2) + (2a^2 + 3)$

$$10a^2 - 5a + 5$$

12.  $(4n^2 - 6n - 3) - (2n^2 + n - 7)$

$$4n^2 - 6n - 3 - 2n^2 - n + 7$$
$$2n^2 - 7n + 4$$

13.  $(t^2 + 7t + 3) - (t^2 - 2t + t - 7)$

$$t^2 + 7t + 3 - t^2 + t + 7$$
$$8t + 10$$

14.  $(12r^2 - 20r) - (r - 5)$

$$12r^2 - 20r - r + 5$$
$$12r^2 - 21r + 5$$



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