

### Difference of Squares

Factor the binomials using the difference of squares pattern.

If it can't be factored, write *prime*.

(Hint: There are only two primes.)

1.  $x^2 - 1$

2.  $x^2 - 9$

3.  $x^2 + 4$

4.  $x^2 - 25$

5.  $9y^2 - 16$

6.  $4x^2 - 25$

7.  $9x^2 - 1$

8.  $a^2 - x^2$

9.  $25 - m^2$

10.  $x^2 - 16y^2$

11.  $25m^2 - n^2$

12.  $-x^2 + 16$

13.  $36m^2 - 121$

14.  $2x^2 - 8$

15.  $25 + 4x^2$

16.  $4a^2 - 81b^2$

17.  $12x^2 - 75$

18.  $a^2b - b^3$

19.  $-98 + 2x^2$

20.  $5x^2 - 45y^2$

### Difference of Squares

Factor the binomials using the difference of squares pattern.

If it can't be factored, write *prime*.

(Hint: There are only two primes.)

1.  $x^2 - 1$

2.  $x^2 - 9$

3.  $x^2 + 4$

4.  $x^2 - 25$

5.  $9y^2 - 16$

6.  $4x^2 - 25$

7.  $9x^2 - 1$

8.  $a^2 - x^2$

9.  $25 - m^2$

10.  $x^2 - 16y^2$

11.  $25m^2 - n^2$

12.  $-x^2 + 16$

13.  $36m^2 - 121$

14.  $2x^2 - 8$

15.  $25 + 4x^2$

16.  $4a^2 - 81b^2$

17.  $12x^2 - 75$

18.  $a^2b - b^3$

19.  $-98 + 2x^2$

20.  $5x^2 - 45y^2$