

## Factoring, Difference of 2 Squares

### Algorithm

1. Try to use the D-Prop first
2. Take the square root of each term
3. Rewrite the expressions as two factors, one having a “+” and the other having a “-”.

**Example:**      **Factor**  $y^2 - 25$

2.  $y$        $5$
3.  $(y + 5)(y - 5)$

## Factor the following

1.  $x^2 - 4$

2.  $x^2 - 36$

3.  $y^2 - 81$

4.  $Z^2 - 100$

5.  $144 - x^2$

6.  $49 - t^2$

7.  $4 - 25x^2$

8.  $36x^2 - 49$

9.  $4x^2 - 1$

10.  $2x^2 - 50$

11.  $3x^2 - 12$

12.  $3x^3 - 12x$

13.  $m^8 - 1$

14.  $x^2 + 81$