

## Factoring the Difference of Two Perfect Squares

Factor the following:

1.  $b^2 - 64$

2.  $(b - 1)^2 - 196$

3.  $25 - p^2$

4.  $a^2 - 144$

5.  $9a^2 - 121$

6.  $x^2 - 81$

7.  $(a - 2a)^2 - 16$

8.  $324a^2 - 289$

9.  $a^2 - 4b^2$

10.  $81 - q^2$

Factor the following:

1.  $p^2 - 169$

2.  $(a-3b)^2 - 225$

3.  $81 - a^2$

4.  $4a^2 - 100$

5.  $25b^2 - 256$

6.  $x^2 - 64$

7.  $(p-q)^2 - 9$

8.  $a^2 - 4$

9.  $m^2 - 4n^2$

10.  $a^2 - b^2$

Factor the following:

1.  $(a + 4b)^2 - 25c^2$

2.  $(a - 3b)^2 - 9$

3.  $100 - p^2$

4.  $a^2 - 36$

5.  $25a^2 - 16$

6.  $9x^2 - 49$

7.  $(p - q)^2 - 100$

8.  $4a^2 - 36$

9.  $25m^2 - 4n^2$

10.  $361a^2 - b^2$

Factor the following:

1.  $(a + 2b)^2 - 4c^2$

2.  $(a - 3b)^2 - 9$

3.  $625 - b^2$

4.  $a^2 - 121$

5.  $25a^2 - 16$

6.  $81x^2 - 36$

7.  $(a - b)^2 - 100$

8.  $4a^2 - 36$

9.  $25m^2 - 4n^2$

10.  $361a^2 - b^2$

Factor the following:

1.  $(3a - 2b) - 16c^2$

2.  $(3a - 4b)^2 - 16$

3.  $169a^2 - 25b^2$

4.  $a^2 - 25$

5.  $9a^2 - 16$

6.  $81a^2 - 36$

7.  $(p - q)^2 - 49$

8.  $25b^2 - 64c^2$

9.  $36m^2 - 4n^2$

10.  $25a^2 - b^2$