

Factoring the Difference of Two Perfect Squares

Factor each completely.

1 $x^2 - 144$

3 $25y^2 - 16$

5 $25a^2 - 4b^2$

7 $49x^2 - 81$

9 $9x^2 - 1$

2 $b^2 - 36$

4 $361a^2 - b^2$

6 $64p^2 - 9$

8 $121m^2 - 4$

10 $(p - q)^2 - 100$

Factoring the Difference of Two Perfect Squares

Answers

1 $x^2 - 144$

$(x + 12)(x - 12)$

3 $25y^2 - 16$

$(5y + 4)(5y - 4)$

5 $25a^2 - 4b^2$

$(5a + 2b)(5a - 2b)$

7 $49x^2 - 81$

$(7x + 9)(7x - 9)$

9 $9x^2 - 1$

$(3x + 1)(3x - 1)$

2 $b^2 - 36$

$(b + 6)(b - 6)$

4 $361a^2 - b^2$

$(19a + b)(19a - b)$

6 $64p^2 - 9$

$(8p + 3)(8p - 3)$

8 $121m^2 - 4$

$(11m + 2)(11m - 2)$

10 $(p - q)^2 - 100$

$(p - q + 10)(p - q - 10)$