

Review: Factoring a Difference of Two Squares

Factor each.

1) $x^2 - 16$

2) $9x^2 - 1$

3) $25x^2 - 4$

4) $100x^2 - 81$

5) $49x^2 - 64y^2$

6) $2x^2 - 18$

7) $x^4 - y^4$

8) $36x^3 - 9x$

Answers:

1) $(x-4)(x+4)$

2) $(3x+1)(3x-1)$

3) $(5x+2)(5x-2)$

4) $(10x-9)(10x+9)$

5) $(7x-8y)(7x+8y)$

6) $2(x-3)(x+3)$

7) $(x+y)(x-y)(x^2+y^2)$

8) $9x(2x+1)(2x-1)$