

Math 0406-Learning Outcome: Factor the Difference of Two Squares

Factor using the difference of two squares. If non-factorable, write NF.

1. $x^2 - 36$

2. $x^2 - 49$

3. $25x^2 - 1$

4. $49x^2 - 4$

5. $121x^2 - 64$

6. $x^2 + 36$

7. $x^2 - 3$

8. $100 - x^2$

9. $81x^2y^2 - 25$

10. $9 - x^2$

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Answers:

1. $(x-6)(x+6)$

2. $(x-7)(x+7)$

3. $(5x-1)(5x+1)$

4. $(7x-2)(7x+2)$

5. $(11x-8)(11x+8)$

6. *NF*

7. *NF*

8. $(10-x)(10+x)$

9. $(9xy-5)(9xy+5)$

10. $(3-x)(3+x)$