

Name : \_\_\_\_\_

# Difference of Squares - Factoring Worksheet

Factor each completely.

1  $x^2 - 169$

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2  $25x^2 - 4y^2$

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3  $81a^2 - 36$

-----

4  $36a^4 - 25b^4$

-----

5  $54x^2 - 6y^2$

-----

6  $7x^4 - 28y^4$

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7  $144x^2 - 169$

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8  $16x^2 - 9$

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9  $169b^2 - 9$

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

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Name : \_\_\_\_\_

# Difference of Squares - Factoring Worksheet

## Answers

1  $x^2 - 169$

$(x + 13)(x - 13)$   
-----

2  $25x^2 - 4y^2$

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

3  $81a^2 - 36$

$9(3a + 2)(3a - 2)$   
-----

4  $36a^4 - 25b^4$

$(6a^2 + 5b^2)(6a^2 - 5b^2)$   
-----

5  $54x^2 - 6y^2$

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

6  $7x^4 - 28y^4$

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

7  $144x^2 - 169$

$(12x + 13)(12x - 13)$   
-----

8  $16x^2 - 9$

$(4x + 3)(4x - 3)$   
-----

9  $169b^2 - 9$

$(13b + 3)(13b - 3)$   
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10  $(a - 3b)^2 - 9$

$(a - 3b + 3)(a - 3b - 3)$   
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