

Special Products - Difference of Squares 1

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

**Factor the binomial that is a difference of squares. If prime, so state.**

1)  $y^2 - 9$

A)  $(y + 3)^2$

B)  $(y - 3)^2$

C)  $(y + 3)(y - 3)$

D) prime

1) \_\_\_\_\_

2)  $x^2 - s^2$

A) prime

B)  $(x^2 - s)(x^2 + s)$

C)  $(x - s)(x + s)$

D)  $(x - s)(x - s)$

2) \_\_\_\_\_

3)  $36x^2 - 25$

A) prime

B)  $(6x + 5)^2$

C)  $(6x + 5)(6x - 5)$

D)  $(6x - 5)^2$

3) \_\_\_\_\_

4)  $9y^4 - 64$

A)  $(3y^2 - 8)^2$

C)  $(3y^2 + 8)(3y^2 - 8)$

B)  $(3y^2 + 8)^2$

D) prime

4) \_\_\_\_\_

5)  $169k^2 - 121m^2$

A)  $(13k + 11m)^2$

C) prime

B)  $(13k + 11m)(13k - 11m)$

D)  $(13k - 11m)^2$

5) \_\_\_\_\_

6)  $49s^2 - 36t^4$

A)  $(7s - 6t^2)^2$

C)  $(7s + 6t^2)(7s - 6t^2)$

B)  $(7s + 6t^2)^2$

D) prime

6) \_\_\_\_\_

## Answer Key

Testname: 6.18.28 SOLVINGQUADRATICSI

- 1) C
- 2) C
- 3) C
- 4) C
- 5) B
- 6) C