Special Products – Difference of Squares 2

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) $y^2 - 36$

    A) $(y + 6)^2$ B) $(y - 6)^2$ C) $(y + 6)(y - 6)$ D) prime

1) _____

2) $z^2 - s^2$

    A) prime   B) $(z^2 - s)(z^2 + s)$ C) $(z - s)(z + s)$ D) $(z - s)(z - s)$

2) _____

3) $64x^2 - 81$

    A) prime   B) $(8x + 9)^2$ C) $(8x + 9)(8x - 9)$ D) $(8x - 9)^2$

3) _____

4) $16y^4 - 9$

    A) $(4y^2 - 3)^2$ B) $(4y^2 + 3)^2$

    C) $(4y^2 + 3)(4y^2 - 3)$ D) prime

4) _____

5) $100k^2 - 121m^2$

    A) $(10k + 11m)^2$ B) $(10k + 11m)(10k - 11m)$

    C) prime   D) $(10k - 11m)^2$

5) _____

6) $144s^2 - 49t^4$

    A) $(12s - 7t^2)^2$ B) $(12s + 7t^2)^2$

    C) $(12s + 7t^2)(12s - 7t^2)$ D) prime

6) _____

Answer Key
Testname: 6.18.28 SOLVINGQUADRATICSI

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