Name _____ Date _____ Class _____

LESSON 8-5

Practice B

Factoring Special Products

Determine whether each trinomial is a perfect square. If so, factor it. If not, explain why.

1. x^2+6x+9

2. $4x^2+20x+25$

3. $36x^2 - 24x+16$

4. $9x^2 - 12x+4$

5. A rectangular fountain in the center of a shopping mall has an area of $(4x^2+12x+9)$ ft^2. The dimensions of the fountain are of the form $cx+d$, where c and d are whole numbers. Find an expression for the perimeter of the fountain. Find the perimeter when $x = 2$ ft.

Determine whether each binomial is the difference of perfect squares. If so, factor it. If not, explain why.

6. $x^2 - 16$

7. $9b^4 - 200$

8. $1 - m^6$

9. $36s^2 - 4t^2$

10. x^2y^2+196

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