Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1 PTech

Warm Up

**Factor** each of the following. Remember – always look for a GCF first.

1. x2 – 81 2. 4x2 – 9y4

3. x2 – 3x – 40 4. x2 + 8x – 9

5. 2x2 – 12x – 54 6. 3x2 + 12x – 36

7. 2x2 + 11x – 40 8. 5x2 – 14x – 3

9. 4x2 – 100 10. 16x4 – 49

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1 PTech

Cool Down

Find three consecutive odd integers such that the product of the first and the second exceeds the third by 8.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 1 PTech



Unit 8 Lesson 8

Homework

A contractor needs 54 square feet of brick to construct a rectangular walkway. The length of the walkway is 15 feet more than the width. Write an equation that could be used to determine the dimensions of the walkway. Solve this equation to find the length and width, in feet, of the walkway.