

8.10 Quadratic Integer Problems

Date _____ Period _____

Examples

1) If the square of a negative number is decreased by 8, the result is twice the number. Find the number.

2) The product of two consecutive integers is 20. Find the integers.

Classwork

3) The square of a positive number is increased by five times the number, the result is 36. What is the value of the number?

4) The square of a negative number is decreased by 18, the result is 3 times the number. What is the number?

- 5) The product of two consecutive even integers is 48. Find the integers.
- 6) The sum of the squares of two consecutive positive odd integers is 202. Find the integers.
- 7) Find three consecutive positive integers such that the square of the first increased by twice the second is 3 less than four times the third.
- 8) Given two consecutive positive odd numbers, it turns out that the square of the smaller minus 5 times the larger is 26, What is the sum of the integers.