20.3 Applications Involving Quadratic Equations

Methods for Solving Quadratic Equations

- 1. Factoring (Sec. 14.8)
- 2. Square root property (Sec. 20.1)
- 3. Completing the square (Sec. 20.1)
- 4. Quadratic formula (Sec. 20.2)

***** Solve Applications Using the Appropriate Method

Ex. A right triangle has side lengths that are consecutive even integers. Use Pythagorean Theorem to find the lengths of those sides.

Ex. (#9) The outside of a mosaic mirror frame measures 14 in. by 20 in., and 160 in^2 of mirror shows. Find the width of the frame.



Ex. (#30) The Hudson River flows at a rate of 3mph. A patrol boat travels 60 mi upriver and returns in a total time of 9 hr. What is the speed of the boat in still water? Round to the nearest tenth.