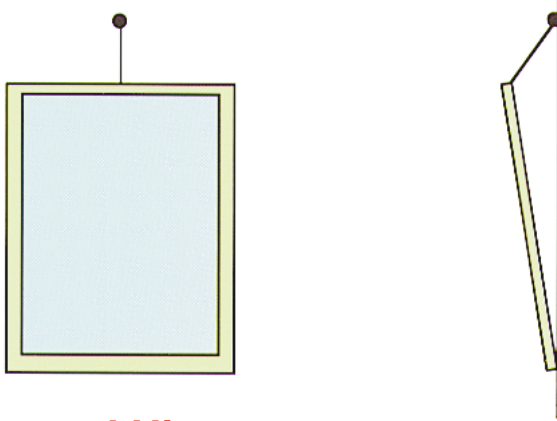


The Tilted Mirror

Problem-of-the-Week

The Problem

A mirror 14 inches tall is hung with a length of strong wire. The wire is 3 inches long. If the distance from the hook to the base of the mirror is 16 inches, what angle does the mirror make with the wall?



Strategies and Hints

1. Which figure above is a better aid to solving the problem? Explain your answer.
2. Which angle does the problem ask you to find? Label this angle W .
3. Three students were given the problem with no figure and drew the drawings below. Explain why each student will be unable to solve the problem.

