10 Chapter Review
Quadratic Mini Golf

Below is a map of four holes on a miniature golf course. The object of this mini-golf game is to use the graph of a quadratic equation to build a bumper around the holes that will make it easier to sink your putts. You want to putt your golf ball into a black hole. If your ball goes into a white hole, you lose it. The distances shown on the golf course below are units that correspond to the units on a coordinate grid. From the four equations below, pick the one whose graph will make your putt easier for each hole.

a. $y = 4x^2 - 8x + 4$　　　　　　　　**b.** $y = -x^2 + 2x + 5$

c. $y = x^2 - 6x + 1$　　　　　　　　**d.** $y = -2x^2 + 12x$

Hole 1	**Hole 2**	**Hole 3**	**Hole 4**
Equation:	Equation:	Equation:	Equation:
_____	_____	_____	_____
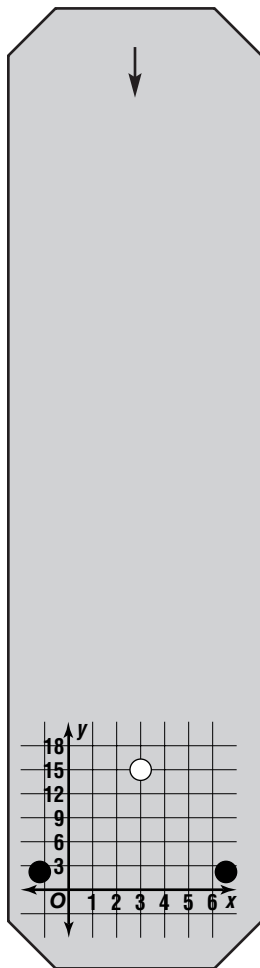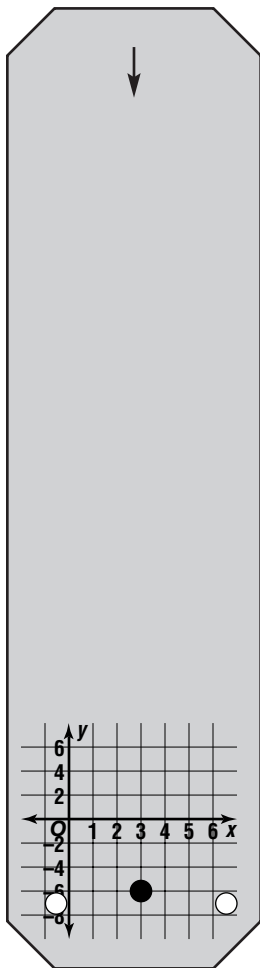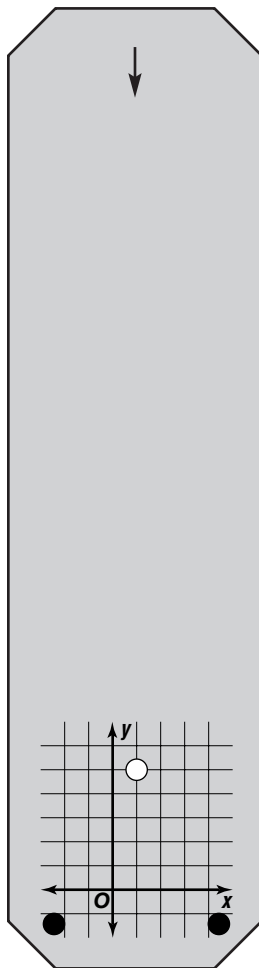
Answers are located in the Answer Key.