Name	ANSWER KEY
Date	Block

1.	$(x-5)^2 = y+4$
2.	$\frac{y^2}{9} - (x+4)^2 = 1$
3.	$\left(x - \frac{5}{2}\right)^2 + (y - 4)^2 = 2$
4.	$(y+5)^2 = -(x+1)$
	$\frac{(x+3)^2}{4} + (y-1)^2 = 1$
6.	$\frac{(y-2)^2}{9} - \frac{x^2}{25} = 1$
7.	$(x+3)^2 + (y-1)^2 = 1$
8.	$\frac{(x-3)^2}{16} + \frac{(y-1)^2}{36} = 1$

Chapter 9 Application Review

- 1. Yes, the truck will clear the opening of the archway. The height of the archway five feet to the right of center is 9.68 feet, and the truck is only 9 feet high.
- 2. (b) x² = 2694.74 y
 (c) 0, 0 m; 100, 3.71 m; 250, 23.19 m; 400, 59.38 m
- 3. No the height of the arch five feet from the center is only 12 feet.

4.
$$\frac{x^2}{100} + \frac{y^2}{36} = 1; y \ge 0$$

5. $x^2 = \frac{6125}{17}y; 1.34$ feet
6. $y^2 = 640x$