1. The arc of a ball is as seen in the following diagram and table:
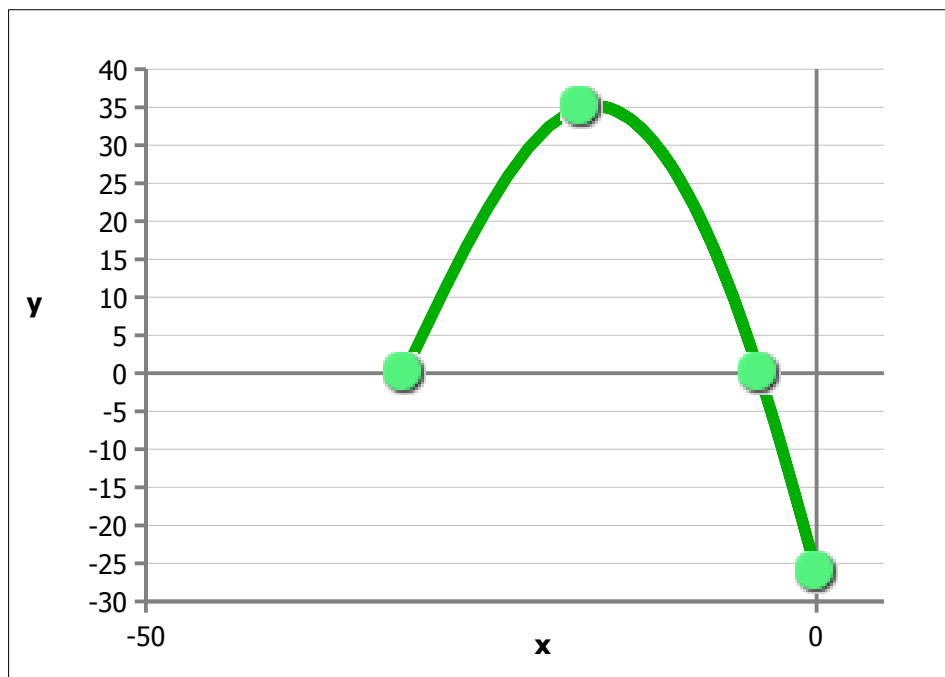
x	y	Coordinates
-4.27	0	(-4.27, 0)
-17.5	35	(-17.5, 35)
0	-26.25	(0, -26.25)
-30.73	0	(-30.73, 0)

Write the equation of this parabolic arc: _____

2. The points equidistant from a point form a _____.

3. The points equidistant from two separate points form a _____.

4. The points equidistant from a point and a line form a _____.

5. Write the function $f(x) = 4x^2 - 48x + 136$ in standard form: _____

6. What are the coordinates of the vertex for $f(x) = 4x^2 - 48x + 136$?   (_____ , _____)

7. What is the focus distance p for $f(x) = 4x^2 - 48x + 136$?

8. What are the coordinates of the focus for $f(x) = 4x^2 - 48x + 136$? (_____ , _____)

9. Make a rough sketch of the graph of the fourth degree function $g(x) = (x^2 - 4)^2$