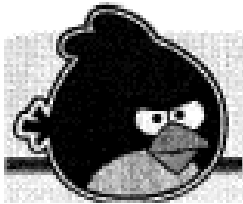


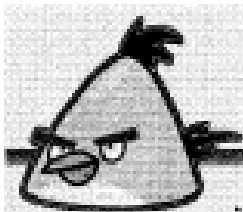
Angry Birds™ Project

- ✓ All work must be shown and answers clearly labeled
- ✓ Graphs should be done on graph paper with axes clearly labeled
- ✓ Graphs should be large (one per page) and show only the first quadrant
- ✓ Drawings of each bird should appear on the graphs

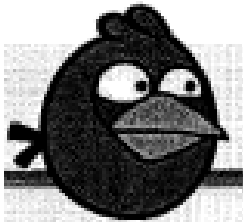
For each equation let “ y ” represent the bird’s height off the ground and “ x ” represent its horizontal distance



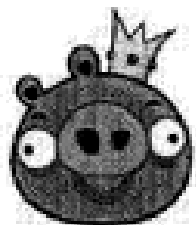
1. Red bird’s flight path is represented by the equation $y = -x^2 + 16x - 15$. Determine the distance at which he will hit the ground by factoring. Draw the graph of the bird’s flight path.



2. Yellow bird’s flight path is represented by the equation $y = -x^2 + 14x - 24$. Determine the distance at which he will hit the ground using the quadratic formula. Draw the graph of the bird’s flight path.



3. Blue bird began at the location $(6,0)$ and hit the ground at $(26, 0)$. Find the polynomial equation for his flight path and draw its graph.



4. Determine which of the birds (Red, Yellow or Blue) hit the King Pig located at $(5, 21)$. Be sure to include a picture of King Pig in the graph of the bird who hit him.