

Angry Animals Worksheet



Level 1:

Thinking about the Cartesian coordinate system. In which quadrant are you pulling the sheep back? In which quadrant does the sheep fly out of the sling shot?

Level 2:

Launch the first pig and click in mid-air to divide it into three pigs. Use the arrows at the bottom of the game to scroll back to where the green pig magically turns into three pigs. Assuming the parabolic formula for the original pig is $y = -0.1x^2 + x + 2$, and the parabolic formula for the highest pig is $y = -0.1x^2 + x + 3$. What is the parabolic formula for the lowest pig?

Level 3:

Launch a bull and click in mid-air to drop a milk bottle. Estimate the equation for the line created by the dropping bottle to destroy the first alien? and the second alien?

Level 4:

After you launch the chicken it follows along a parabola, but when you click in mid-air the path of the chicken changes into a different parabola. Looking at the parabolic formula $y = Ax^2 + Bx + C$. After the mid-air click, which number changes A, B, or C? Does the number get smaller or larger? Explain.