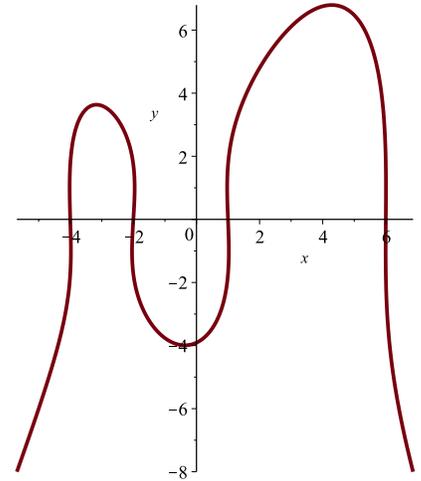


MAT125, Paper Homework “Wiggle”

Consider the curve satisfying the implicit equation

$$3y - y^3 = (x + 2)(x - 1)(x + 4)(x - 6),$$

which has the graph shown at right.



1. Calculate $\frac{dy}{dx}$ for this curve.

2. Write the equation of the line tangent to the curve at $x = -2, y = \sqrt{3}$.