Vocabulary/Definitions

- $\circ~$ Family of functions
- \circ Parameters
- The meaning of v_0 and y_0 in $y = -4.9t^2 + v_0t + y_0$
- Finding critical and inflection points for families of functions

Understand

1. Where are the local maximum or minimum values of functions in the family $y = x^3 - kx$ (with k > 0)? How does k affect the location of the maxima or minima?

2. Where do functions in the family $y = x^3 - kx$ have inflection points? How does k affect the location of the inflection points?