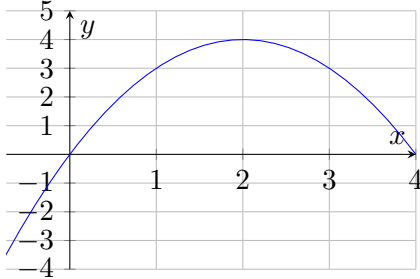


Mini-math Div 3/4: Monday, October 19, 2020 (10 minutes)

- (1) Sketch the derivative of the following function on the same graph. Be sure to indicate, if any, approximate zeros, asymptotes, and general shape of the graph of the derivative.



- (2) Find y' if $y = (x^2 - 6)^{12}$

- (3) Find $\frac{dA}{dt}$ if $A = \pi r^2$ and $\frac{dr}{dt} = 3$.

- (4) Find the rate of change of f with respect to t if $f(t) = \sqrt{\frac{t+1}{t-1}}$