

# Blake Q's #10

June 27, 2020

Try and complete all of the problems by hand. Use Desmos / CAS to visualize what is going on.

## Question 1

Simplify  $f(x)$  so that it is easy to graph.

$$f(x) = (x^2 - x - 2)(x - 1)^3 \quad (1)$$

## Question 2

Graph  $f(x)$  by hand, use Desmos / CAS to check.

$$f(x) = (x + 1)(x - 2)(x - 1)^3 \quad (2)$$

## Question 3

Find the intersection of  $g(x)$  and  $k(x)$ , where  $g(x) = k(x)$ . Have a go by hand, but use Desmos / CAS to help you.

$$g(x) = x + 1 \quad (3)$$

$$k(x) = x^2 - 5 \quad (4)$$