Some of the big ideas for the semester

- Calculus is the language of change
- Approximation is a core tool as we develop calculus concepts
- You won't always know how to solve a problem immediately

Jump in and TRY SOMETHING! You may fail, but aspire to fail spectacularly!

Math is not a competitive sport

1. Evaluate the following:

(a)
$$f(3)$$
, $f(-3)$, $f(\sqrt{2})$

(b)
$$f(g(3)), g(f(3)), f(k(3)), k(f(3))$$

(c)
$$f(k(g(-2))), g(f(k(-5)))$$

2. Find formulas for each of the following:

- (a) f(g(x))
- (b) g(f(x))
- (c) f(g(k(x)))
- (d) f(k(g(x)))