

## 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
- Question for end of semester: How has Calc I changed your life?

## 5 minute breakout rooms – Cameras on, if possible!

Share

- Your name
- Class year
- Major / Potential major
- Some extra-curricular interest

Let  $f(x) = x^3 - 2x$  and  $g(x) = x + 2$ . Then  $f(g(2)) =$

(a)  $-3$

(b)  $6$

(c)  $56$

(d)  $\pi$

(e) Ugh. . .

Let  $f(x) = x^3 - 2x$  and  $g(x) = x + 2$ . Then  $g(f(2)) =$

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(e) Ugh. . .

Let  $f(x) = x^3 - 2x$  and  $g(x) = x + 2$ . Then  $f(g(x)) = (x + 2)^3 - 2(x + 2)$

- (a) True, and I can explain why
- (b) True, but I am unsure why
- (c) False, and I can explain why
- (d) False, but I am unsure why
- (e) Ugh. . .

Let  $f(x) = x^3 - 2x$  and  $g(x) = x + 2$

Then the graph of  $y = f(g(x))$  looks like the graph of  $y = f(x)$  but shifted

- (a) 2 units up
- (b) 2 units down
- (c) 2 units to the right
- (d) 2 units to the left
- (e) Ugh. . .

## Wrap Up

- Fill out Background Questionnaire (link at onCourse)
- PCA due tomorrow night
  - Assignment and questions on course webpage
  - Reading from Ostebee/Zorn posted to onCourse
  - Submit answers in onCourse
- First WeBWork assignment due Monday night  
We'll talk more about this tomorrow and Friday
- See you tomorrow morning at 8:30!