Name:	

## Quiz 2

## Math 252

You have 20 minutes to complete this quiz and upload your work to Canvas. Write your answers on a separate sheet of paper and scan them with a scanning app. When you're finished, first check your work if there is time remaining, then turn it in. You may use a scientific calculator, but not a graphing one, and you may not consult other people or the internet. Show all your work.

1. (4 points) If  $2 \le f(x) \le 5$  for all x with  $-1 \le x \le 2$ , then  $A \le \int_{-1}^{2} f(x) dx \le B$  for some numbers A and B. What are A and B?

**2.** (8 points) Evaluate  $\int (3t + \sin(t)) dt$ .

**3.** (8 points) What is the average value of  $g(x) = \sin(x)$  on the interval  $\left[0, \frac{\pi}{3}\right]$ ?