



LESSON 31

MA 16100 • FALL 2022

DR. HOOD



~~POLL 1~~ WARM UP

Evaluate the sum:

$$\sum_{k=0}^5 k = ? = 0 + 1 + 2 + 3 + 4 + 5 = 15$$

a) 15

b) 10

c) 5

ANNOUNCEMENTS

- Dr. Hood's Office Hours in Math 844
 - Mon, Wed: 3:30-4:30pm
 - Fri: 2:30-3:30pm
- TA's Office Hours in [Math Resource Room](#) (WTHR 313)
 - Mon – Thu: 9:30am – 8:30pm
 - Fri: 9:30am – 3:30pm

EXAM 3

- Exam 3 is Tuesday Nov 15 at 6:30 – 7:30pm in ELLT
- Supplemental Instruction Exam 3 Review Session
 - Sun Nov 13 at 6:30-7:30pm in LILY G129
- Brightspace > “Content” > “Exam 3”
 - Study Guide, Frequently Asked Questions, Exam Conflict Form

THANKSGIVING BREAK

- University Holiday is Wed Nov 23 – Fri Nov 25
- MA 161 additional breaks:
 - No class on Mon Nov 21
 - No recitation on Tue Nov 22
 - No HW or Quizzes that week
 - No Office Hours on Mon Nov 21
 - Math Resource Room closed Mon Nov 21 – Fri Nov 25
 - No SI on Nov 20 – Nov 25

POLL 1

Evaluate the limit:

$$\lim_{n \rightarrow \infty} \frac{1}{2} \left(1 - \frac{1}{n} \right) = ?$$

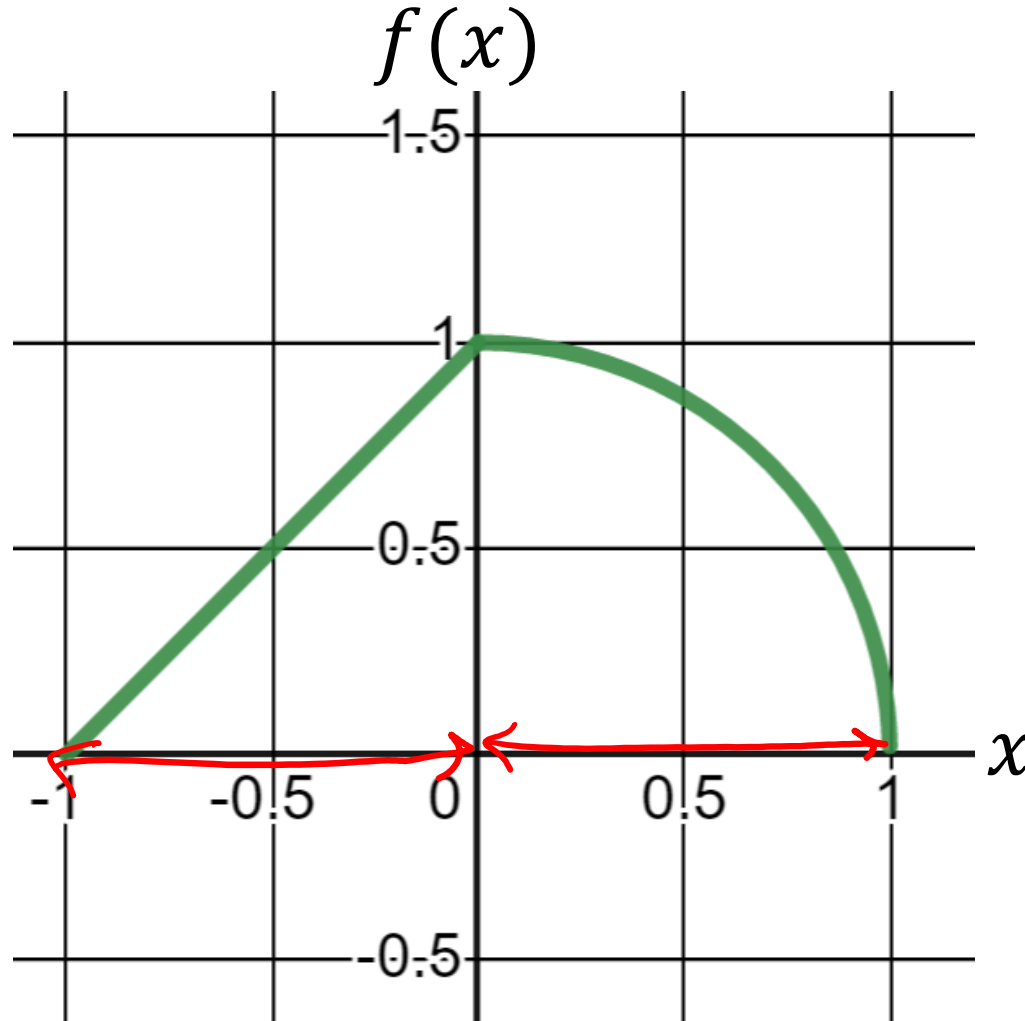
a) 1

b) $\frac{1}{2}$

c) 0

POLL 2

Use geometry to calculate the net area under the curve $f(x)$ on the interval $[-1, 1]$.



a) $\frac{\pi}{4}$

b) $\frac{\pi}{2} + \frac{1}{2}$

c) $\frac{\pi}{4} + \frac{1}{2}$

$A = \triangle + \square$
 $= \frac{1}{2}b \cdot h + \frac{1}{4}(\pi r^2)$
 $= \frac{1}{2} \cdot 1 \cdot 1 + \frac{1}{4}\pi(1)^2$