## LEssOR 26 MA 16100 FALL 2022 DR. HOOD

WARM UP
The distance (in miles) that Bob walks is described by $s(x)$. If he walks at speed 2 mph , how long does it take him to walk a distance $s(x)$ ?
a) $\frac{s(x)}{2}$

$$
\lfloor s(x)\rfloor=\text { miles } \quad(2 \text { mph }\rfloor=\frac{\text { mile }}{\text { hour }}
$$

want hours

$$
\left\lfloor\frac{s(x)}{2 \text { mizar }_{r}}\right\rfloor=h r
$$

b) $2 s(x)$
c) $\frac{2}{s(x)}$ dimensional analysis

# ANNOUNCEMENTS 

- Dr. Hood's Office Hours in Math 844
- Mon and Wed at 3:30-4:30pm
- Friday at 2:30-3:30pm
- TA's Office Hours in the Math Resource Room
- WTHR 313
- Mon - Thu from 9:30am - 8:30pm
o Fri from 9:30am - 3:30pm


## POLL 1

What equation describes the cost to build a silo with height $h$ and radius $r$ ?
a) $C=10 \pi r h+4 \pi r^{2}$

$$
\text { sides: }(\$ 2)(2 \pi r h)
$$

b) $C=40 \pi^{2} r^{3} h$
c) $C=4 \pi r h+10 \pi r^{2}$

$$
4 \pi r h+10 \pi r^{2}
$$

## POLL 2

How many critical points does
$\mathrm{C}(r)=\frac{40,000}{r}+\frac{22 \pi}{3} r^{2}$ have?
a) 0 critical points
b) 1 critical point
c) 2 critical points

# POLL 3 

What is the relationship between $x$ and $y$ ?
a) $x^{2}+y^{2}=3^{2}$

b) $y=-\frac{4}{3} x+4$
c) $4 y=3 x$
line throe $(3,0)$ and $(0,4)$

$$
\begin{aligned}
(y-0) & =-\frac{4}{3}(x-3) \\
y & =-\frac{4}{3} x+4
\end{aligned}
$$

