

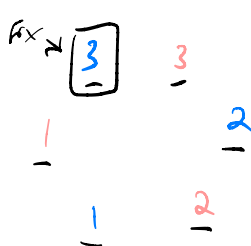
Angela &
Andrew

3-6-22

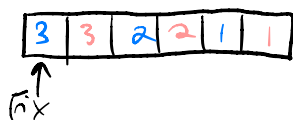
Math 69A 2010 December

fix can mean establish

3 women and 3 men sit at a circular table.
How many arrangements such that there are no
consecutive women or men?



$$3 \cdot 3 \cdot 2 \cdot 2 = \boxed{36}$$

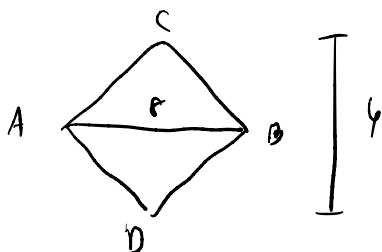


40) H $a^m < (-a)^n$

+ would be negative

\Rightarrow make n even so $(-a)^n$ is $(+)$
 $\Rightarrow m < n$

42) Area of



$$\frac{f \cdot b}{2}$$

$$58) \sin x > \frac{1}{2} \cos x$$

$$2 \sin x > \cos x$$

$$\frac{\sin x}{\cos x} = \tan x$$

$$\frac{\sin x}{\cos x} > \frac{1}{2}$$

$$\tan x > \frac{1}{2}$$

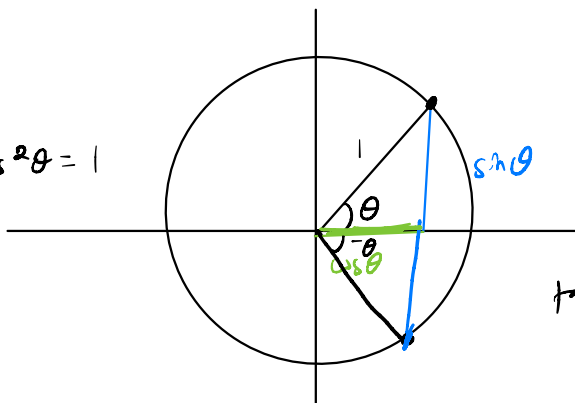
SOH

CAH

TOA

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$(\sin \theta)^2$$



$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

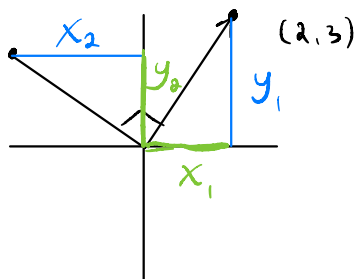
$$= \frac{\text{opp}}{1} = \text{opp}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}} = \frac{\sin \theta}{\cos \theta}$$

$$\cos(-\theta) = \cos \theta$$

$$\sin(-\theta) = -\sin \theta$$

51)



New coordinates after
rotation of 90° CCW?

$(-3, 2)$

\Rightarrow swap coordinates