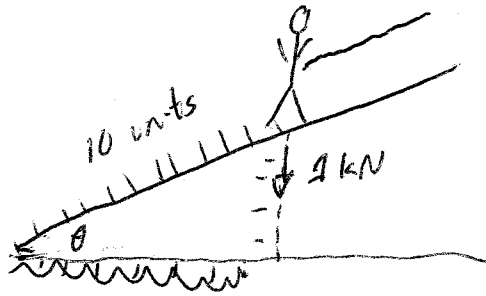


FORCE ALONG SLOPE

GRAPH



TABLE

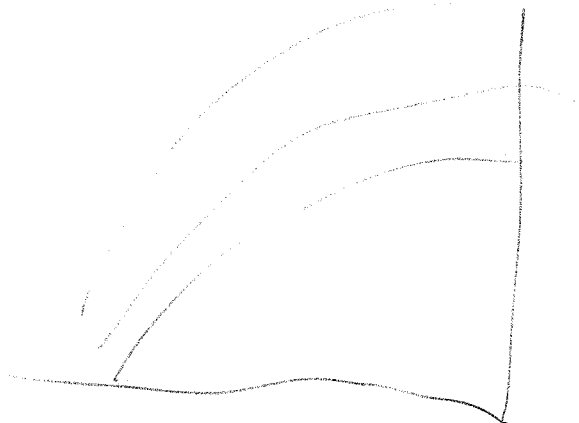
$$\sin(\theta)$$

memorize Table:

	slope Angle	FORCE	LOAD ON 1mm
Very low angle	$0^\circ - 20^\circ$	0%	6 person
low angle	$20^\circ - 30^\circ$	$3\frac{1}{4}\%$	4 person
	$30^\circ - 40^\circ$	50%	
steep angle	$40^\circ - 50^\circ$	64%	3 person
	$50^\circ - 90^\circ$	77%	
high angle	90°	100%	2 person

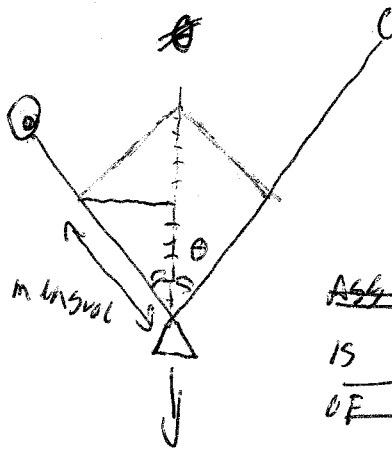
GRAPH

LOOK UP



FORCES ON ANCHOR LEGS

VECTOR
ADDITION



~~ASSUME INTERIOR ANGLE~~

IS ~~BISected~~ BY DIRECTION
OF LOAD.

~~50% CARRIED BY EACH LEG.~~
~~DISTRIBUTED TO~~

DISTRIBUTED TO LEG i

$$D_i = \frac{\cos(\theta_i)}{\sum_{j=1}^n \cos(\theta_j)}$$

TABLE

$$\cos\left(\frac{\theta}{\sqrt{2}}\right) \cdot D_i$$

TABLE MEMORIZE

ASSUME BISECTS.

	INTERIOR ANGLE	FORCE ON EACH ^{LEG} ANCHOR
	0°	50%
	30°	52%
	60°	58%
MAX	90°	71%
	120°	100%
	150°	193% (200%)
	180°	∞

FORCE ON ANCHOR LEGS

W

