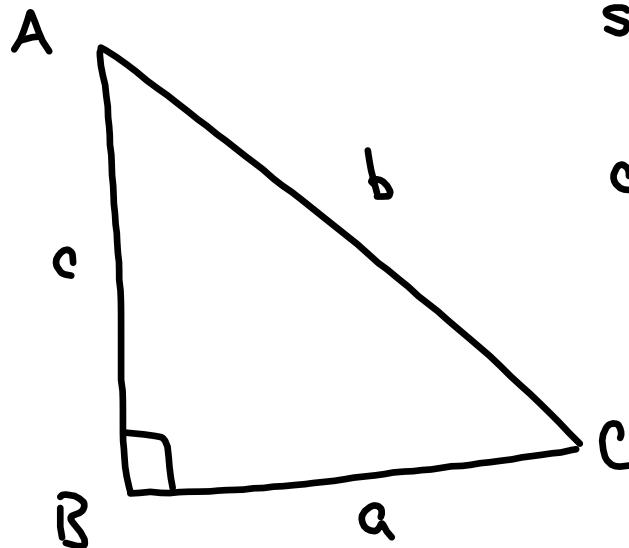


# Section 8.4 Trigonometry

Obj: express trig ratios as fractions or decimals

recognize trig relationships from right triangles

use a calculator to find values of trig ratios or measures of angles

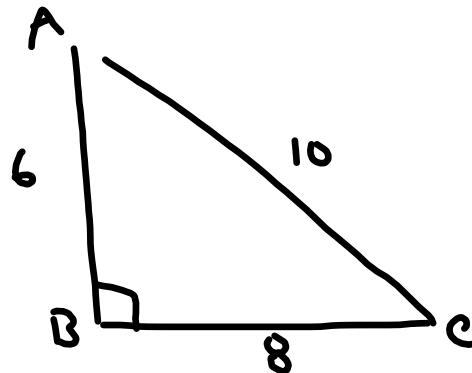


$$\sin A = \frac{\text{side opposite angle } A}{\text{hypotenuse}} = \frac{a}{b}$$

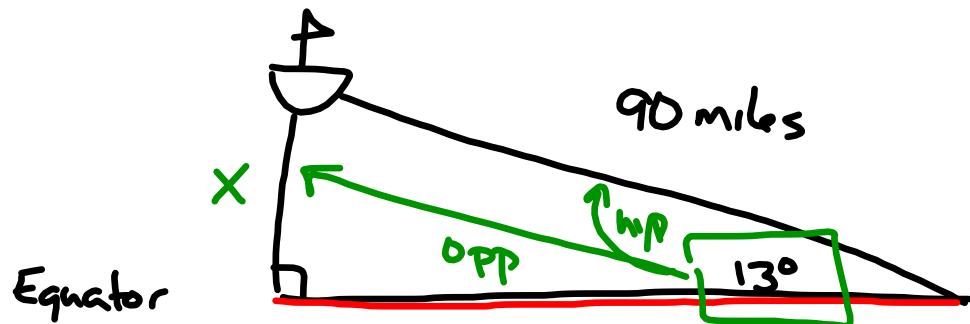
$$\cos A = \frac{\text{side adjacent angle } A}{\text{hypotenuse}} = \frac{b}{c}$$

$$\tan A = \frac{\text{side opposite angle } A}{\text{side adjacent angle } A} = \frac{a}{b}$$

# SOH-CAH-TOA



	Fraction	Decimal
$\sin A =$	$8/10$	.8
$\sin C =$	$6/10$	.6
$\cos A =$	$6/10$	.6
$\cos C =$	$8/10$	.8
$\tan A =$	$8/6$	$1.\overline{3}$
$\tan C =$	$6/8$	.75



$$\frac{\sin 13^\circ}{1} = \frac{x}{90}$$

$$90 \cdot \sin 13^\circ = x$$

The boat is about 20.2 miles from the equator.