



TRIG MISSION RELIEF PROJECT

NAME _____ TEAM _____ PERIOD _____

Use a Conversion Factor of 1 in. = 9 ft.

Initial	to	Final	Angle	Distance on map	Distance in Feet	Distance in Feet & Inches
Start to team#						
	to					
	to					
	to					

Gp/Corner	to	Start	Angle	Distance on map	Distance in Feet	Distance in Feet & Inches
1/SW	to	1	33°	6 in	54 ft	54 ft
2/NE	to	2	334°	9 1/8 in	82.125 ft	82 ft 2 in
3/SE	to	3	339°	2 3/8 in	21.375 ft	21 ft 5 in
4/SW	to	4	28°	10 1/2 in	94.5 ft	94 ft 6 in
5/NE	to	5	313°	4 7/8 in	43.875 ft	43 ft 11 in
6/NW	to	6	59°	1 1/4 in	11.25 ft	11 ft 3 in
7/SE	to	7	338°	8 3/4 in	74.25 ft	74 ft 3 in
8/SW	to	8	44°	6 in	54 ft	54 ft
9/NE	to	9	311°	6 7/8 in	61.875 ft	61 ft 11 in
10/NW	to	10	30°	4 3/4 in	42.75 ft	42 ft 9 in

How to use the Technology

General:

- The students will need to be on the internet. To log on, they will open **Safari** and use their school computer log-in.
- Please note that the internet may drop while the students are working. They will simply have to go back to safari and log in again!

FaceTime:

- **Air Traffic Controllers ONLY**
 - Click on Face Time icon.
 - Click on Contacts on the bottom, and find your contact (the HHS iPod number you are assigned to call).
 - Click on the number of iPod you are to call
 - Click Home.
- **Pilots ONLY**
 - Click Accept.
- If you lose connection, go to `htsdstudent+(the iPod # you are on)@gmail.com`.
Password is Talbots1

QR Code Scanner:

- Open the **Bakodo** app or another Scan app and hold it steady overtop of the QR code. Make sure to line up the corners of the code with the **Red Corners** on the screen.
- You must hold the iPod steady and it may not work if there is a shadow or glare.
- Click on go to URL

Gyro Compass:

- When you first open the app, a sample of "Star Walk" will appear. Face the "NORTH" sign on the wall of the gym, hold the iPod vertically in your hands, and swipe the screen until you see the "N" arrow. Line it up with the North spot and then click done.
- The red hand is now your **polar axis** and the imaginary line from the **pole to north** will create the angle.
- Place the iPod on the floor and turn it until you find the desired angle. The angle measurement is given in the tool bar at the top to the right of "Heading".
- *When you turn to the right, the angle measure increases from 0°. If you turn to the left, the angle measure is decreasing from 360°.*
- Eyeball a spot on the wall that marks that angle. Using the distance that the ATF gave you, use the TapeMeasure app (directions are below) and walk toward that spot.

Tape Measure:

- Open TapeMeasure.
- Each student must calibrate TapeMeasure (it goes from your height.) Check that the Unit is in Foot/Inch. Click Calibrate. Target in the crosshair, a point on the ground 9 ft. 10 in. (See the area in the gym designated for this.) Click Select. Do this 3 times. Click Save, then done.
- Click on Distance. Pointing in the direction of the angle your ATF gave to you, target the crosshair on a point on the floor of the given distance. Walk to that spot. If measured correctly, you should be at the barcode of your mission.

PRE-CALCULUS Disaster Mission Relief Co-Pilot Worksheet

TEAM MEMBERS _____ TEAM NUMBER _____ PD _____

<p>Mission _____ to Mission _____</p> <p>ANSWER:</p>	<p>Mission _____ to Mission _____</p> <p>ANSWER:</p>
<p>Mission _____ to Mission _____</p> <p>ANSWER:</p>	<p>Mission _____ to Mission _____</p> <p>ANSWER:</p>