

Isotherms Algebra 1

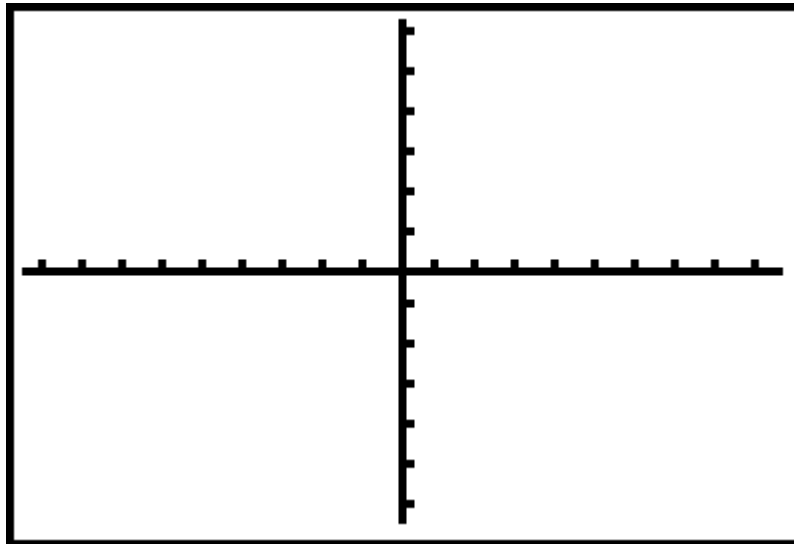
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List the team members:

Equipment:

- CBL (Calculator Based Lab)
- TI-83
- Temperature Probe
- CBR with CBL to CBR cable
- Meterstick
- ISOTHERM.83p program

I. Sketch the room on the following grid in the appropriate Quadrant. Indicating landmarks and the position of the origin as decided in class.



II. Place the CBL in Multimeter mode by pressing the **[MODE]** key and then pressing **[CH VIEW]** until you get the SONIC channel reading in meters. Plug the CBR into the Sonic port, and the Temperature probe in CH1.

III. From your team's assigned area, get your X-position, Y-position, and your temperature in Celsius (1 meter above the floor) for three different positions, about a meter apart in your area. Make sure that you hold the CBR in the same position for the measure of the x and y distances (at any height) and that you are "bouncing" the signal off of a "good" part of the wall that is the x-axis, and y-axis. Use **[CH VIEW]** to switch over to measuring temperature in degrees Celsius from CH1.

IV. Mark on your map above, in Part I, the approximate location of your three points.

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