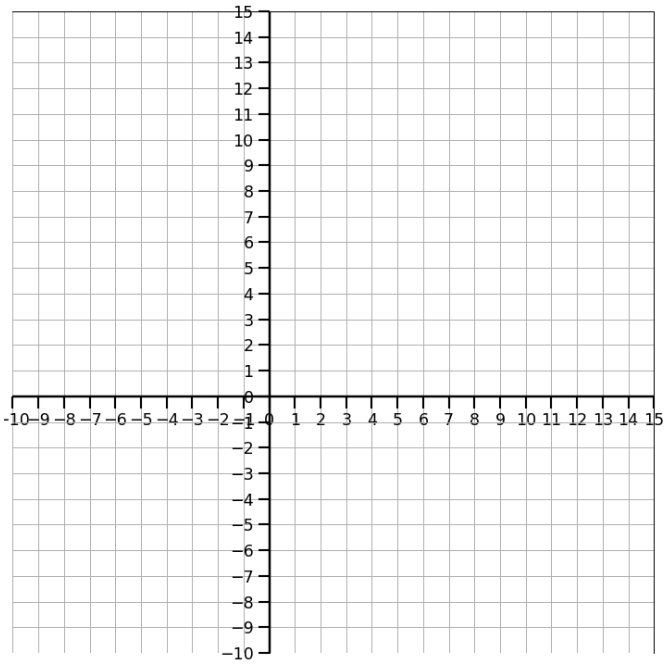
Math 4b. Class work 10.

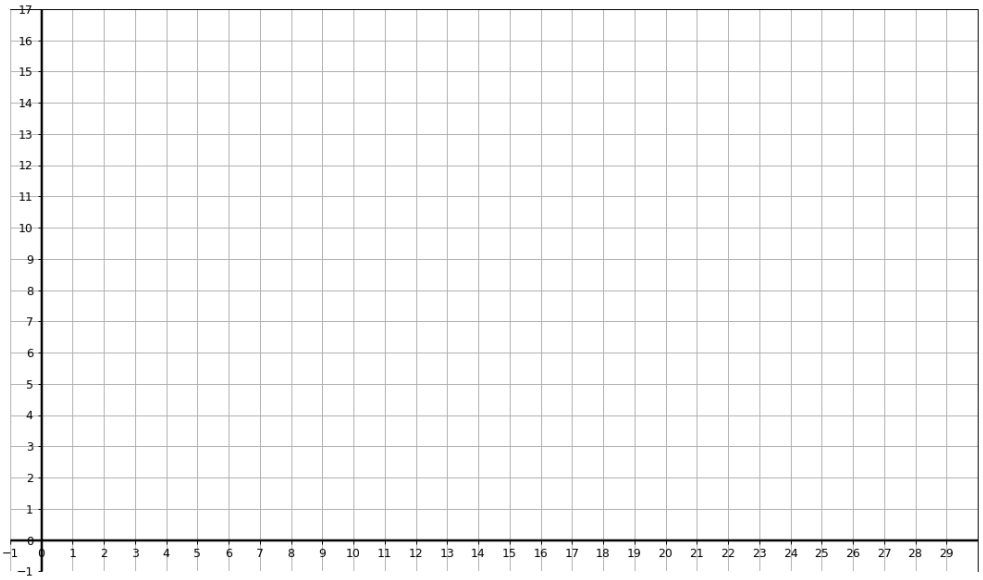
Coordinates.

In your notebook draw a picture by coordinates:

1. (5, 0), (-5, 12), (-7, 8), (-3, 1), (-9, 3), (-5, -6), (-2, -3), (2, -4), (6, -3), (8, -1), (9, 2), (12, 3), (11, 3), (10, 4), (9, 4), (5, 2), (3, 4), (3, 7.5), (0, 9), (-3, 14), (-3, 9.5);
   (10, 3)



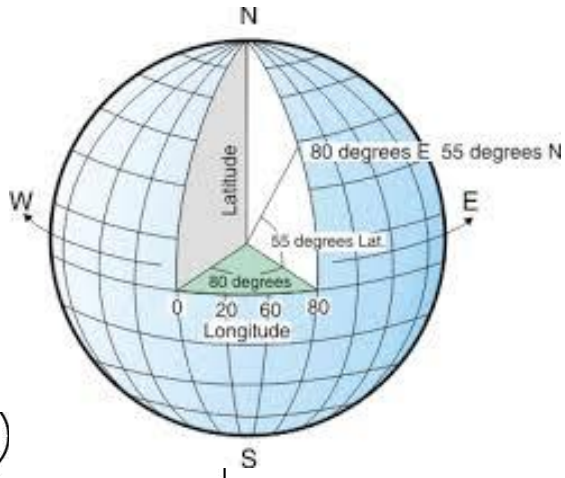
2. (2, 0), (2, 10), (4, 12), (12, 12), (18, 14), (18, 16), (20, 14), (22, 14), (24, 12), (24, 14), (25, 12), (26, 12), (26, 14), (28, 12), (28, 10), (24, 8), (22, 8), (18, 6), (18, 0), (14, 0), (14, 4), (6, 4), (6, 0), (2, 0);
   (21, 12)



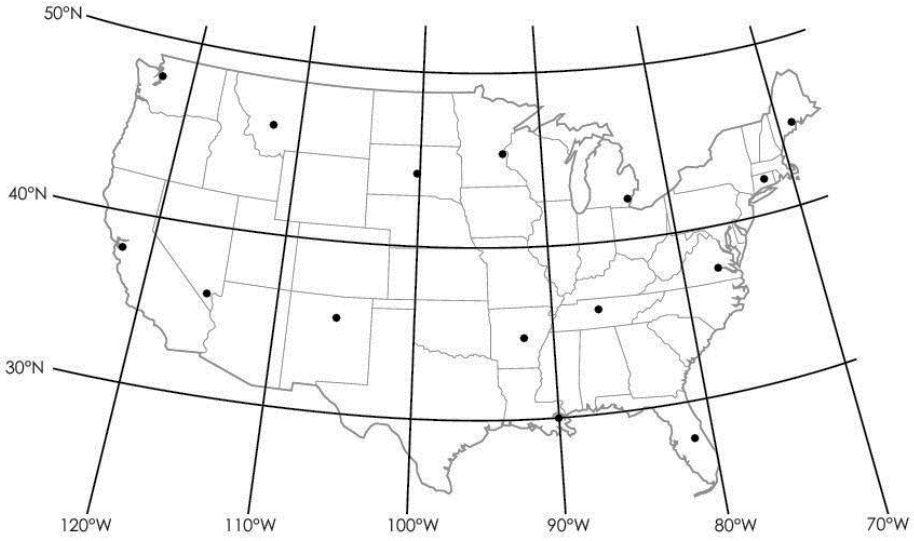
Earth coordinate system:

A *geographic coordinate system* uses a three-dimensional spherical surface to determine locations on the earth.

Any location on earth can be referenced by a point with longitude and latitude coordinates.



Latitude and Longitude



Using the coordinates listed below, write the name of the city next to its plotted latitude and longitude point on the map.

Detroit, Michigan: 42°N, 83°W

New Orleans, Louisiana: 30°N, 90°W

Orlando, Florida: 28°N, 81°W

Hartford, Connecticut: 42°N, 72°W

Las Vegas, Nevada: 36°N, 115°W

Seattle, Washington: 47°N, 122°W

Augusta, Maine: 44°N, 69°W

Minneapolis, Minnesota: 45°N, 93°W

Richmond, Virginia: 37°N, 77°W

Pierre, South Dakota: 44°N, 100°W

Santa Fe, New Mexico: 35°N, 106°W

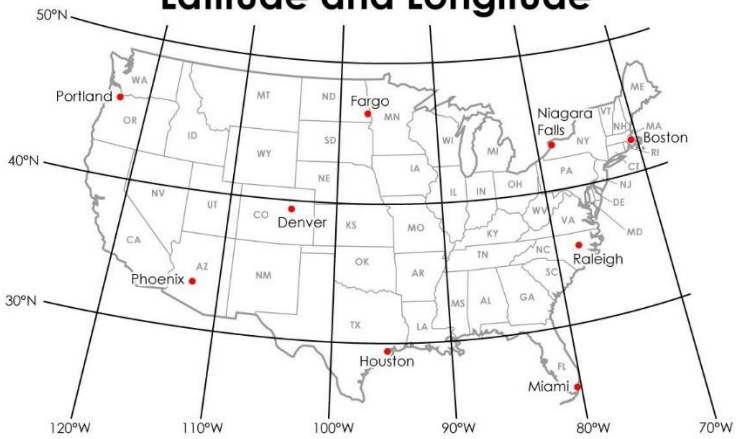
Helena, Montana: 46°N, 112°W

Little Rock, Arkansas: 35°N, 92°W

San Francisco, California: 38°N, 122°W

Nashville, Tennessee: 36°N, 87°W

Latitude and Longitude



1. 33°N latitude, 112°W longitude _____

2. 35°N latitude, 78°W longitude _____

3. 45°N latitude, 122°W longitude _____

4. 29°N latitude, 95°W longitude _____

5. 43°N latitude, 79°W longitude _____

6. 25°N latitude, 80°W longitude _____