21 Feb '25

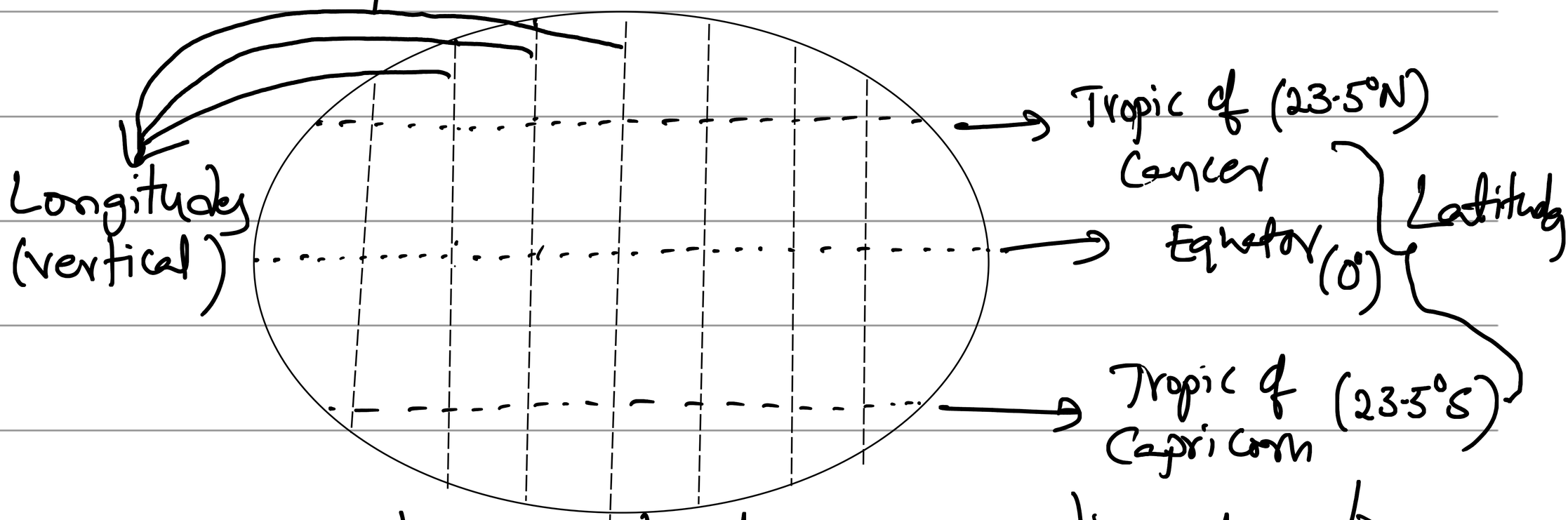
Maps – Different projections (Showing 3D earth / globe / sphere / ball on a 2D picture / paper)

AI Generated notes on different projections, their advantages & disadvantages

HW: Study these projections, their advantages / disadvantages

→ Best map is always 3D map (see google maps – zoom out)

→ On the earth, if you want to give location of any point you can use Latitudes & Longitudes.



These are horizontal & vertical lines (that we draw on maps — these are not really on the Earth)

Equator is 0° Latitude

→ Above that, we have 0°N to 90°N latitudes to the northpole.

→ Below that, we have 0°S to 90°S latitudes to the southpole.

Total latitudes = 180° (90°N + 90°S)

Longitudes are also called meridians. 0° Longitude (prime meridian) is the vertical line from North pole to South pole passing through Greenwich in England.

→ 0°E to 180°E to the east of prime meridian

→ 0°W to 180°W to the west " " "

Total = 360° (180°E + 180°W)

180° E longitude is the same as 180° W longitude (just going in different directions).

→ Continents vs. Countries
Oceans vs. seas vs. lakes
(see AI Generated notes)

→ HW: Remember the names of continents & oceans from big to small in size (descending order)

→ HW: Complete world map puzzle.

→ HW: Get pictures of 5 different places on maps using their latitudes / longitudes.

Eg: If you type 23 N, 80 E in google maps it gives a point in India.

(Or) You can right click any point on the map to see it's coordinates (latitude/longitude).

→ check 23 N, 180 E = 23 N, 180 W