

Figure 2.2 Edmonton, Alberta, Canada. Description using different coordinate systems. Source: BaseLoc (www.baseloc.com), division of GPS Police (www.gpspolice.com), Calgary, AB.

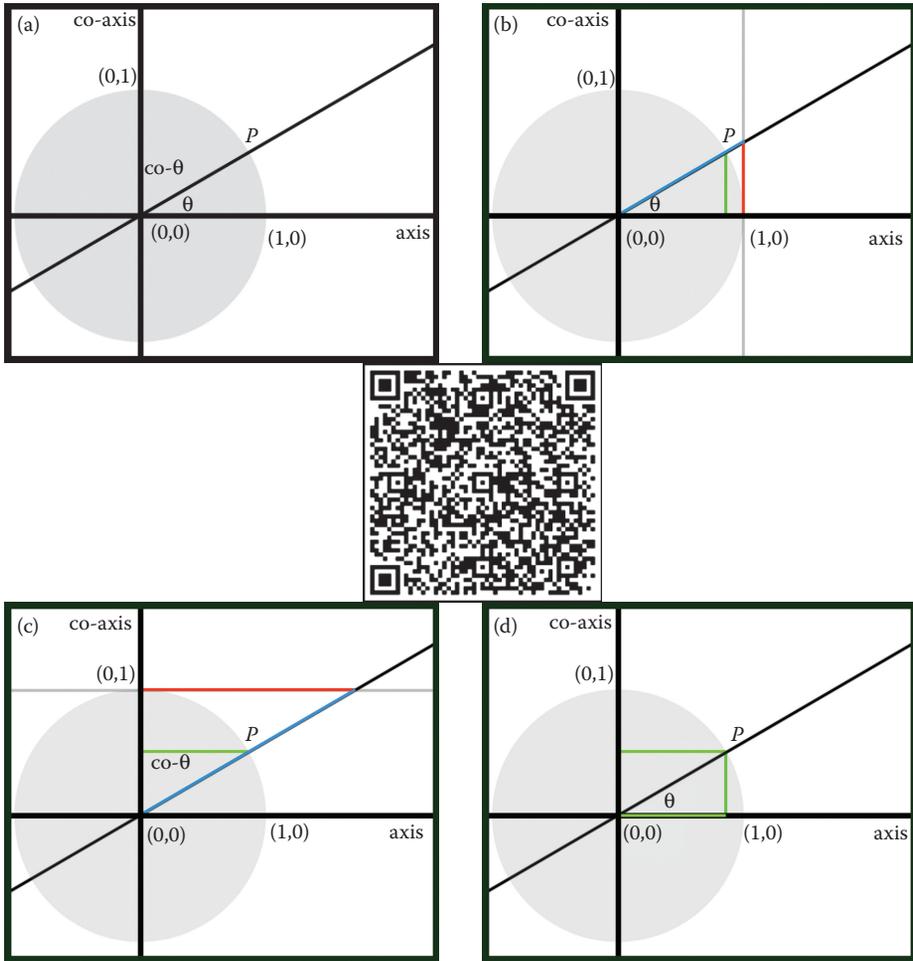


Figure 2.3 (a) Unit circle, axis, and complementary (orthogonal) axis designated as co-axis. A secant line intersects the circle at P and forms an angle of θ with the axis and an angle of $\text{co-}\theta$ with the co-axis. (b) Derivations of sine (green), tangent (red), and secant (blue) functions of angle θ . (c) Derivations of co-sine (green), co-tangent (red), and co-secant (blue) functions of co-angle θ . (d) Shows right triangle interpretation of cosine as adjacent side over hypotenuse. Source: Modified from Arlinghaus, S. L. and W. C. Arlinghaus, 2005. *Spatial Synthesis: Centrality and Hierarchy*. Volume I, Book 1. <http://www.imagenet.org>, Introduction. QR code links to animation from that book, <http://www-personal.umich.edu/~copyright/image/books/Spatial%20Synthesis/trig/anisandytrig.gif>

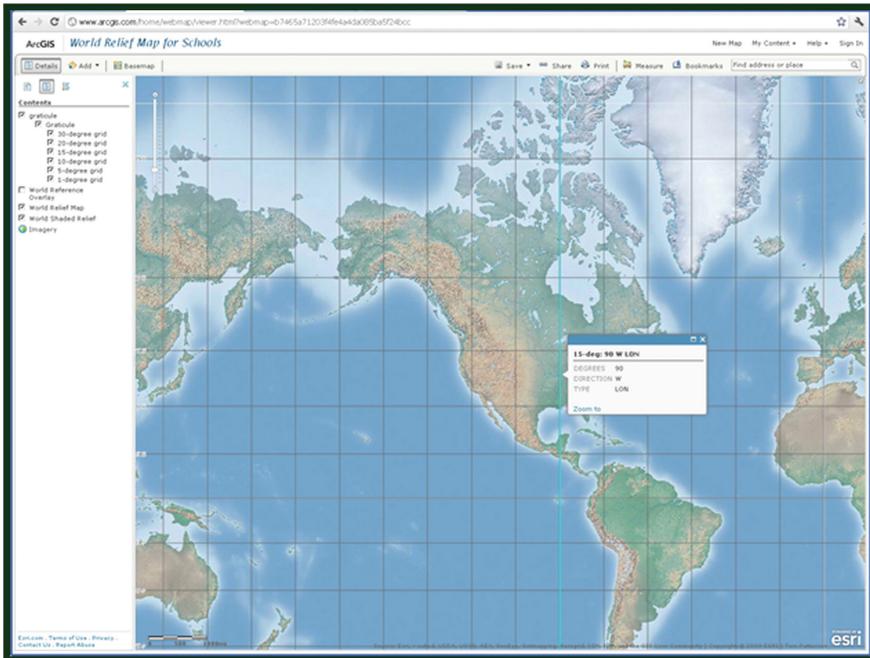


Figure 2.4 Map in ArcGIS Online showing uneven spacing between lines of latitude, but even spacing between lines of longitude, on this modified Mercator projection. Source of base maps: Esri software.