

## What is a contour line?

- Imaginary line joining points of equal elevation above or below a datum
- Contour lines have a specific contour interval
- Interval is the vertical distance between contours
- Cl is a function of scale and units
- Relief is the highest elevation shown minus the lowest



## Features of contours

- Contour interval
- Index contours
- Intermediate contours
- Supplementary contours
- Depressions
- Uncertain contours
- Bathymetry: isobaths



## Slope

Slope = Rise vs. Run
Four expressions:

- Slope ratio (e.g. 1:10)
- Slope fraction (e.g. 1/10)
- Percent slope (rise per 100 units of run) 10\%
- Degrees from horizontal (tan S = rise / run) 5.71 degrees (Note 90 is vertical)


## Slope and gradient

- Slope varies by direction
- Direction of maximum slope = aspect
- "Fall line"
- At a peak or pit, slope becomes zero



## Closer means steeper






## Heights on maps

- Contours: CI, relief, interval, depressions
- Interpretation hard, but can tell height
- Slope = contour density
- Convex, concave, peak, pit, saddle
- Rule of V's
- Cut and fill, transects, profiles

