## **TEACHING POINT PLOTTING**

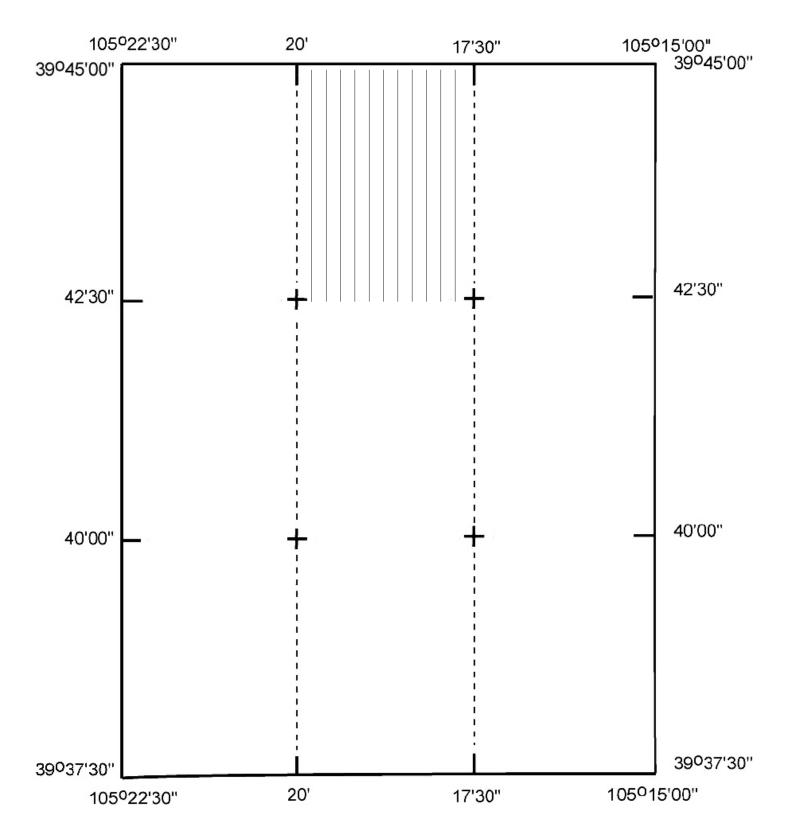
The figures on the following pages can be used to help teach your students how to plot points for their Map and Compass Field Day. Some are taken from *Chapter 9 Mountain Navigation by Map and Compass*.

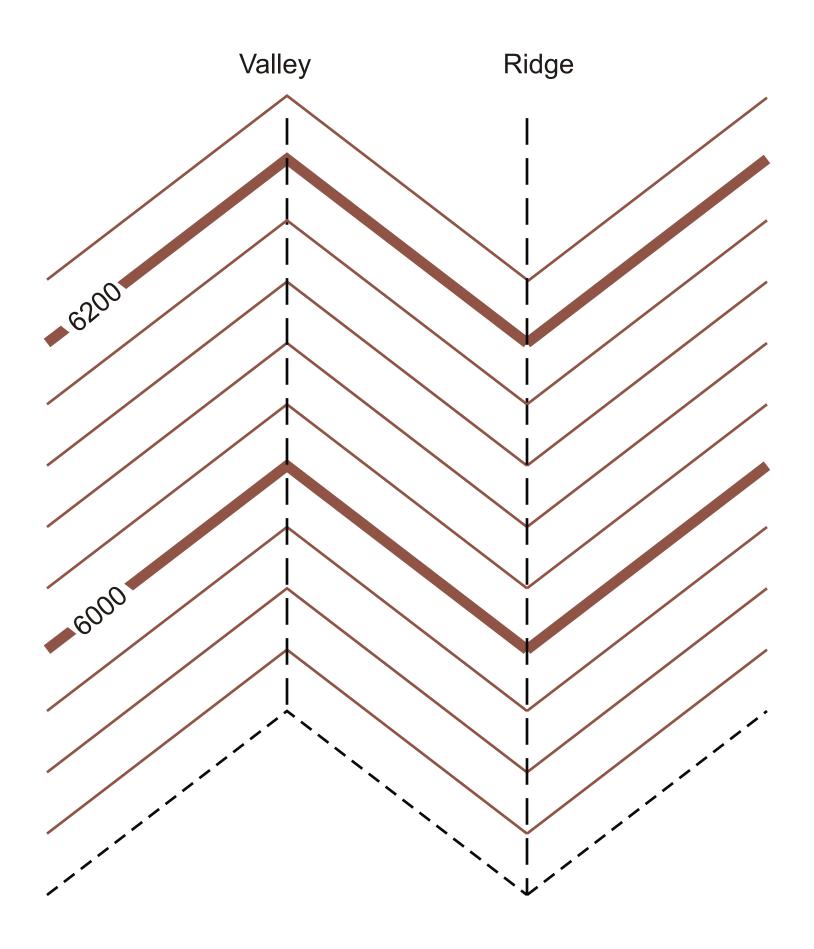
The first figure shows the layout of the grid on a USGS topographic map (7.5 minute series). The crosses are spaced 2' 30" apart, close enough on the map to construct a grid of north-south lines with a 12" ruler. Start by drawing a line between a cross and the corresponding tick mark at the top edge of the map, then use that line to lay out a series of north-south lines with 1" to 1.5" spacing.

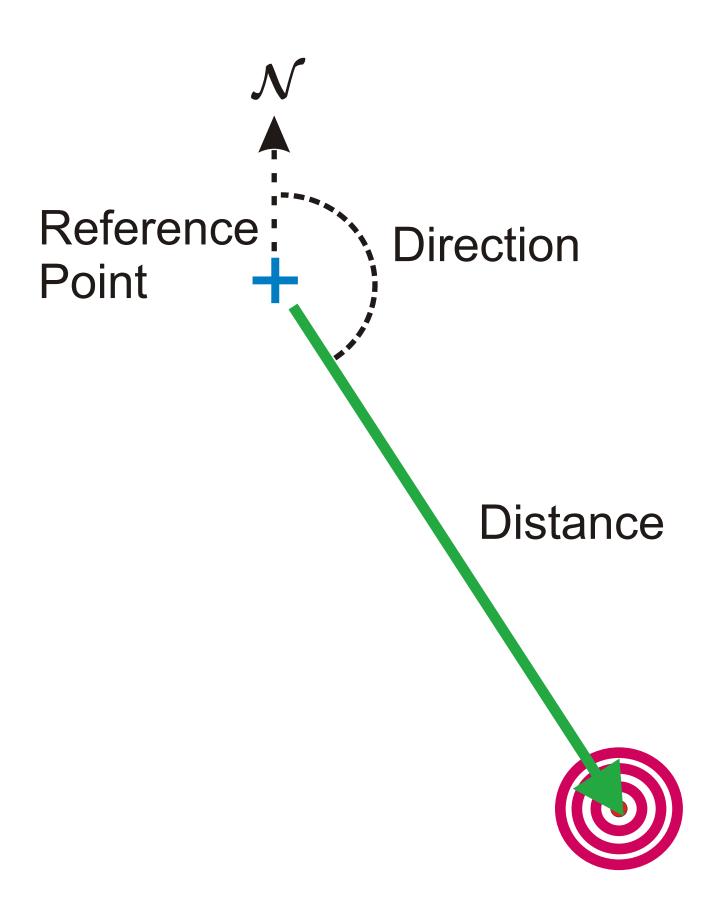
The second figure is a chevron that can be used to show the behavior of contours in ridges and in valleys. Fold the page along the vertical dashed lines with the left crease forming a valley and the right one forming a ridge. Hold it so the brown contour lines are level. Cutting off the section below the lower dashed line allows you to set the folded page on a flat surface.

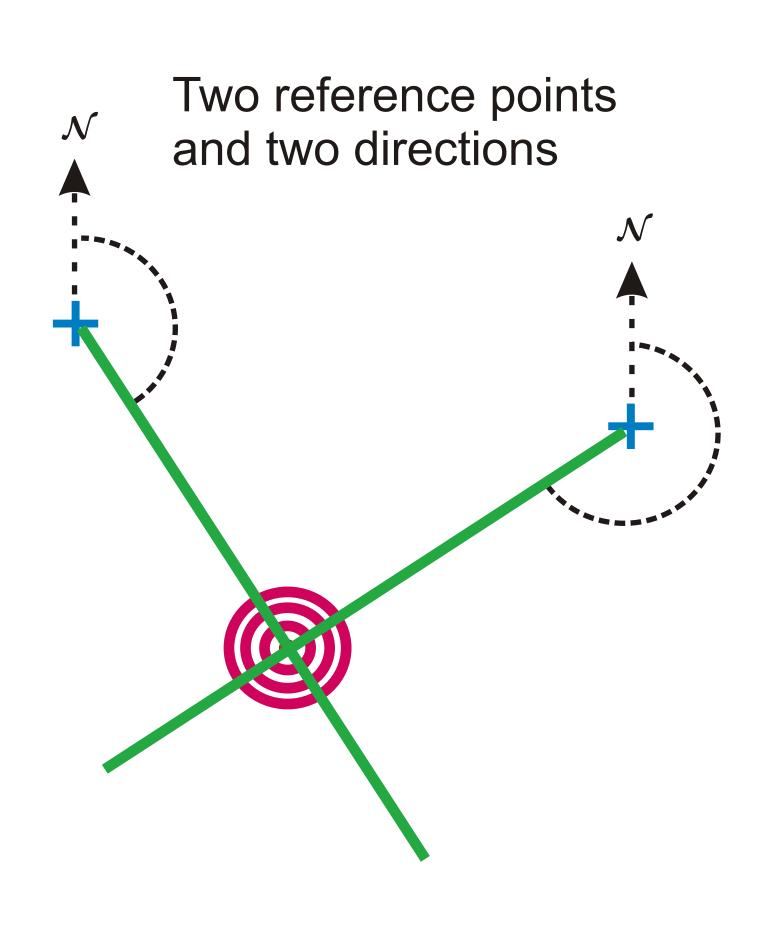
The next four figures demonstrate the techniques used to locate a point, which is denoted by the red target. The dashed arrows pointing up from the crosses denote north. The last two figures are self-explanatory.

Point Plotting 1





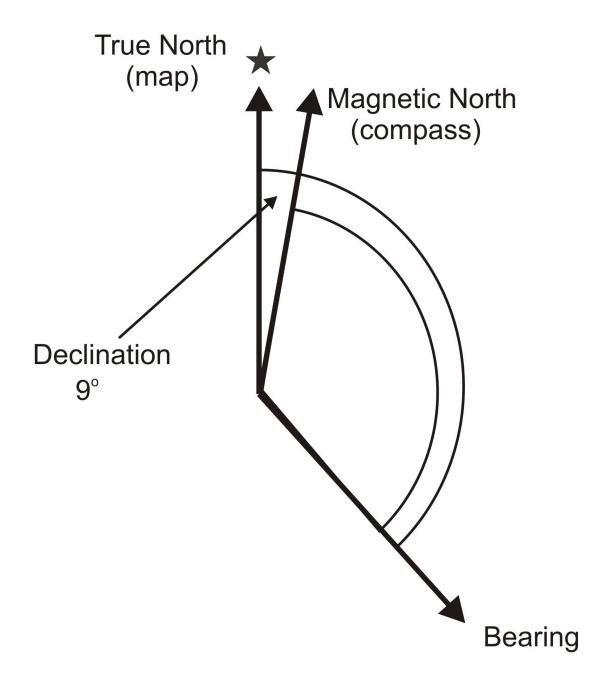




## Distance from Intersection







## True = Magnetic + 9°

(in the vicinity of Denver)

