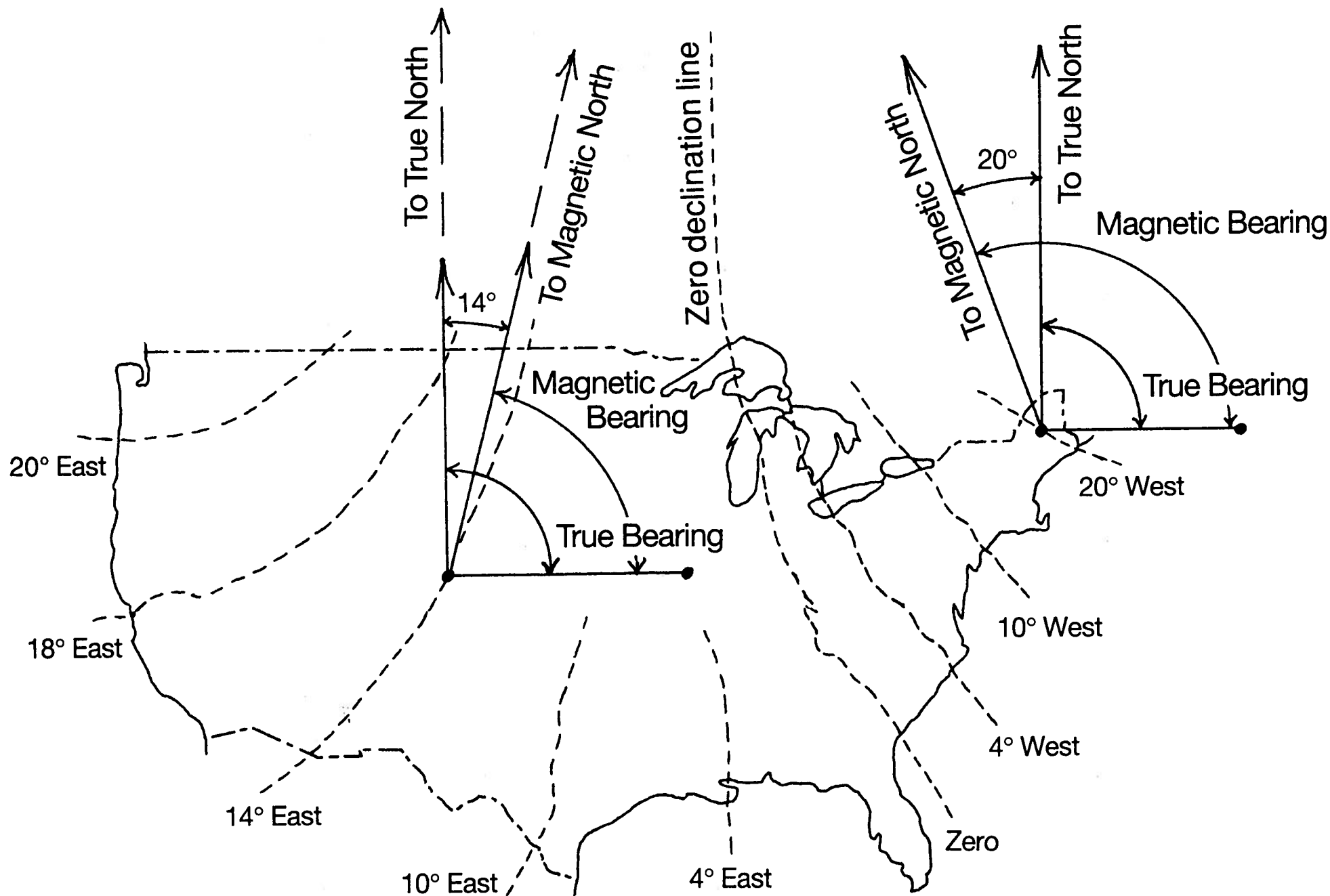
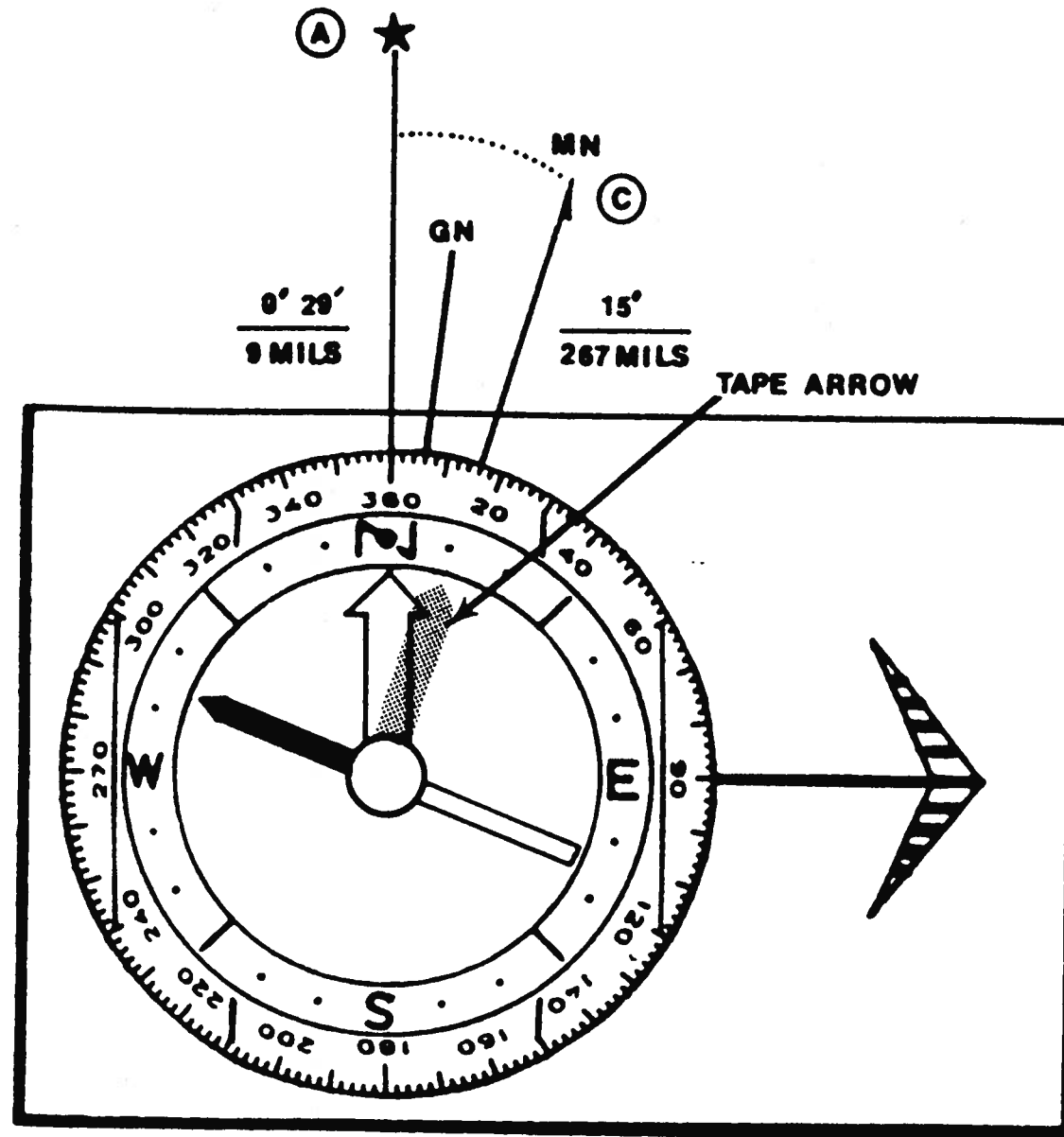




**RELATIONSHIP BETWEEN TRUE AND
MAGNETIC NORTH IN THE UNITED STATES**

**SETTING DECLINATION ANGLE
(TAPE ARROW)**



THINGS YOU CAN DO WITH A COMPASS

1. ORIENT YOUR MAP

Align parallel lines on the bottom of the rotating chamber of the compass with the north-south lines on the map. Then rotate the map and compass together until the magnetic needle is aligned with the tape arrow.

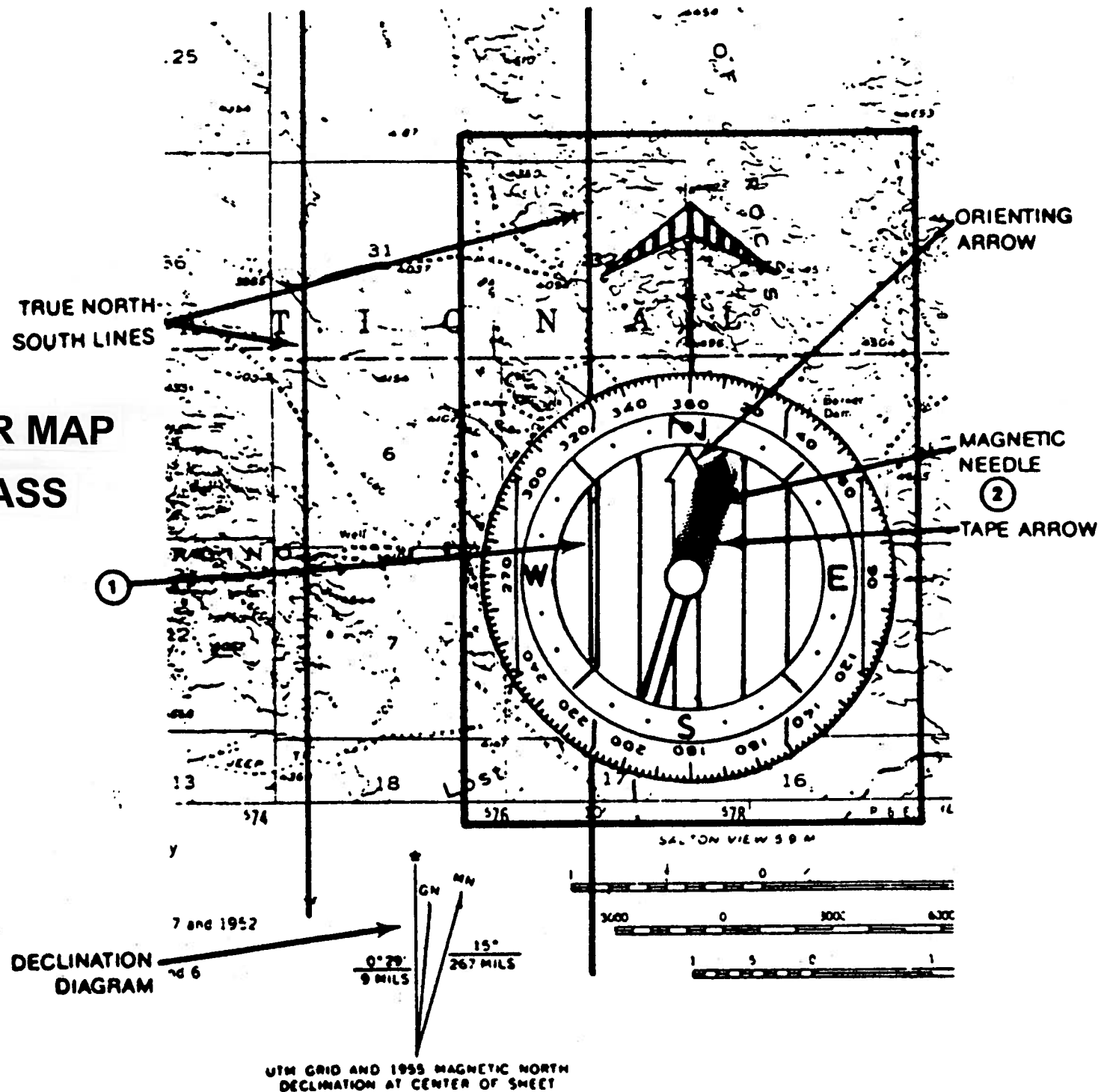
2. TAKE BEARINGS IN THE FIELD

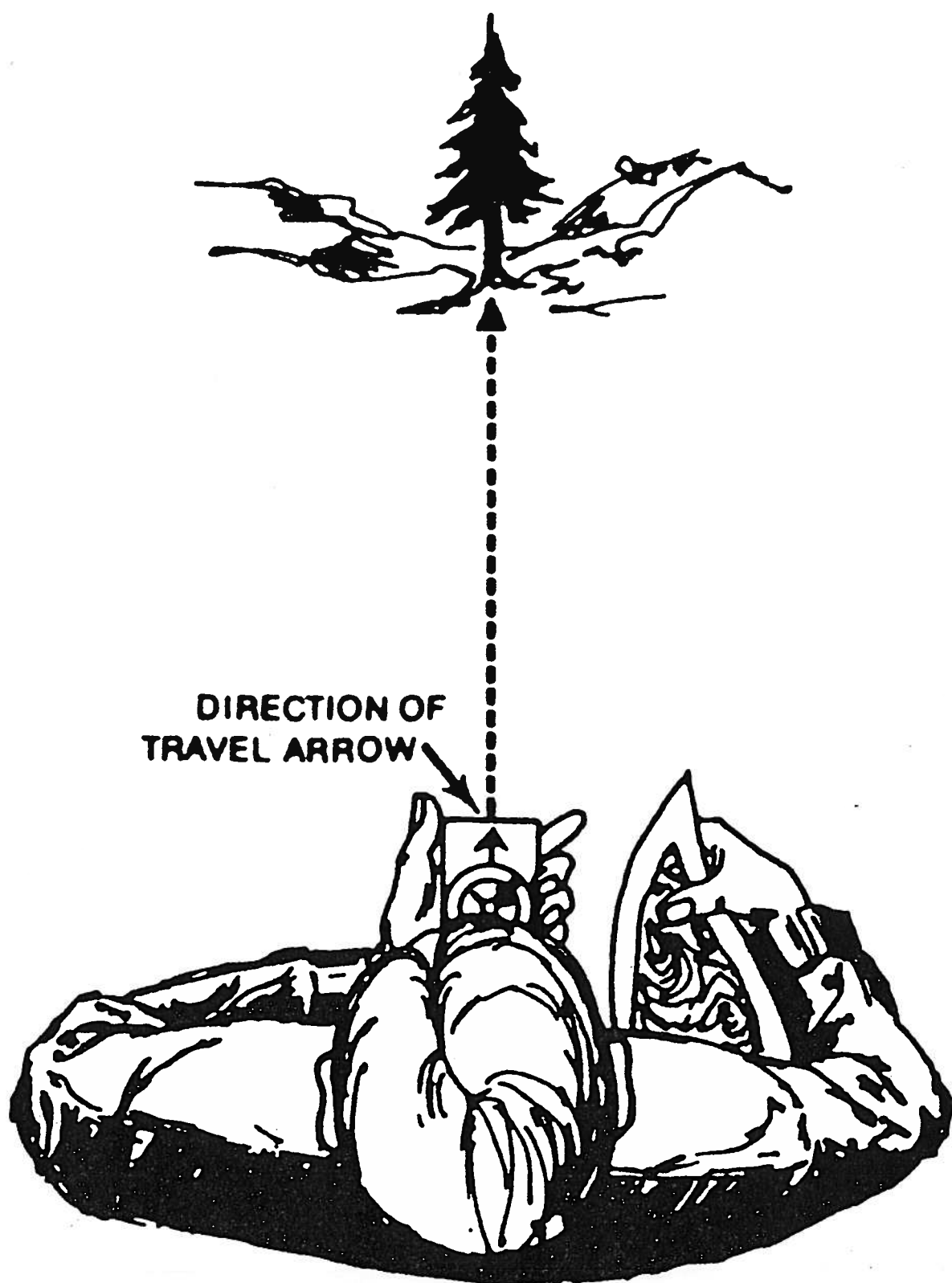
Hold the compass level and in front of you. Rotate your body until the direction of travel arrow on the compass is pointing in the direction of desired measurement. With your free hand rotate the central dial of the compass until the tape arrow is exactly under the red (north) part of the magnetic needle.

3. PLOTTING BEARINGS ON YOUR MAP

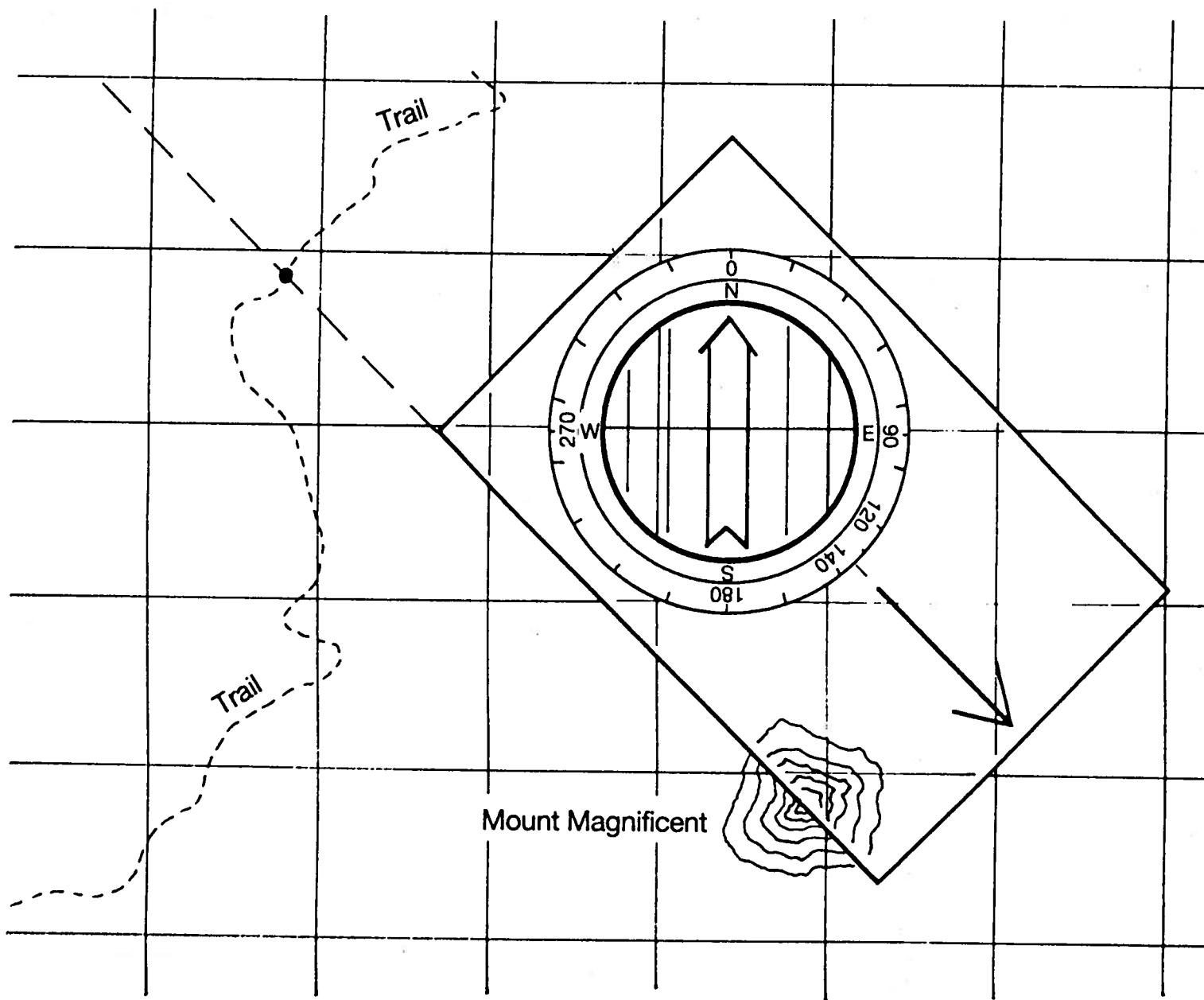
Place the compass on the map. Rotate the compass until the parallel lines on the rotating chamber of the compass are parallel to the north-south lines of the map. Slide the compass up or down the north-south map lines until the straight edge of the compass intersects your known position or the landform you have taken a bearing from. Draw a line using the straight edge.

ORIENTING YOUR MAP USING A COMPASS



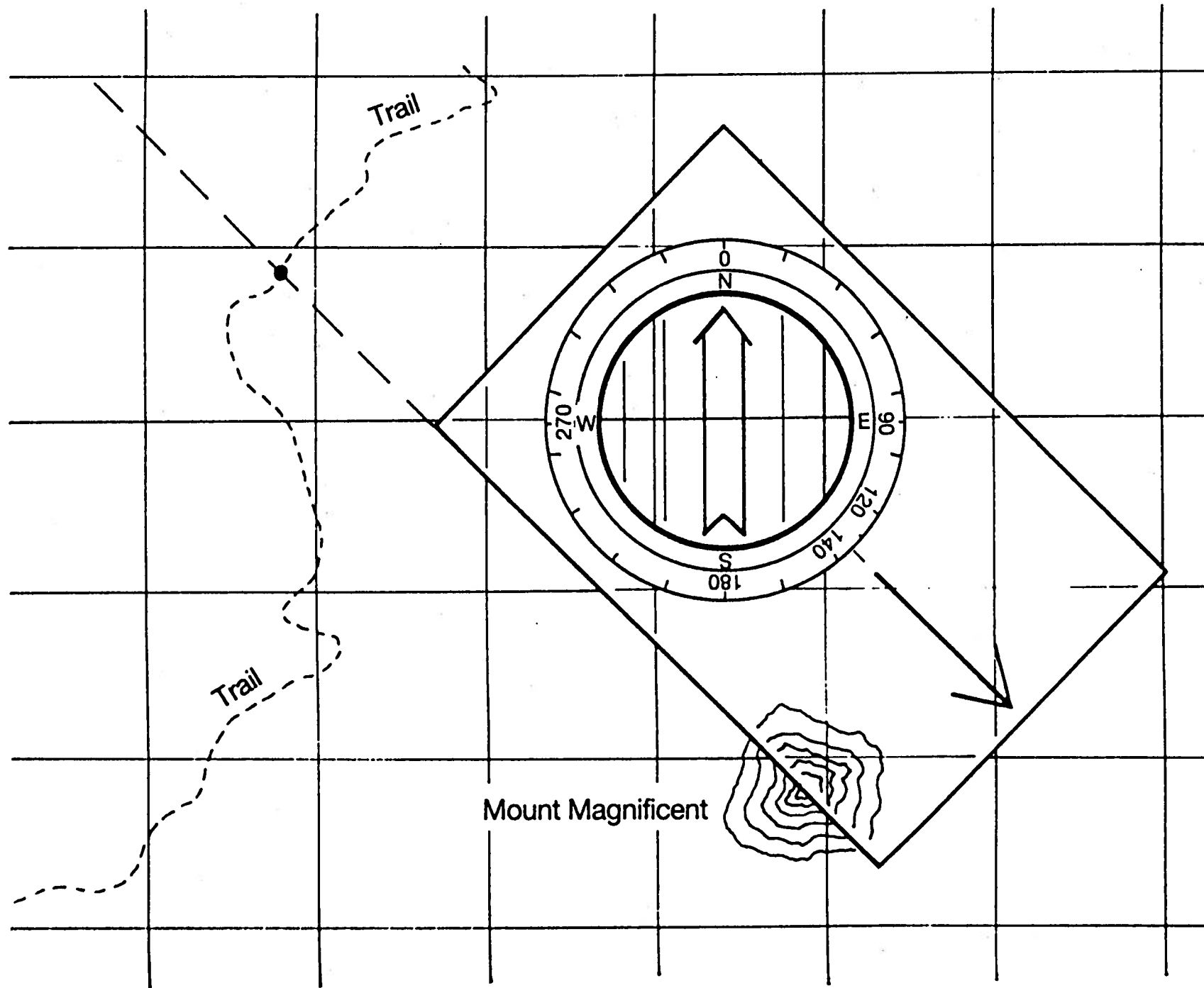


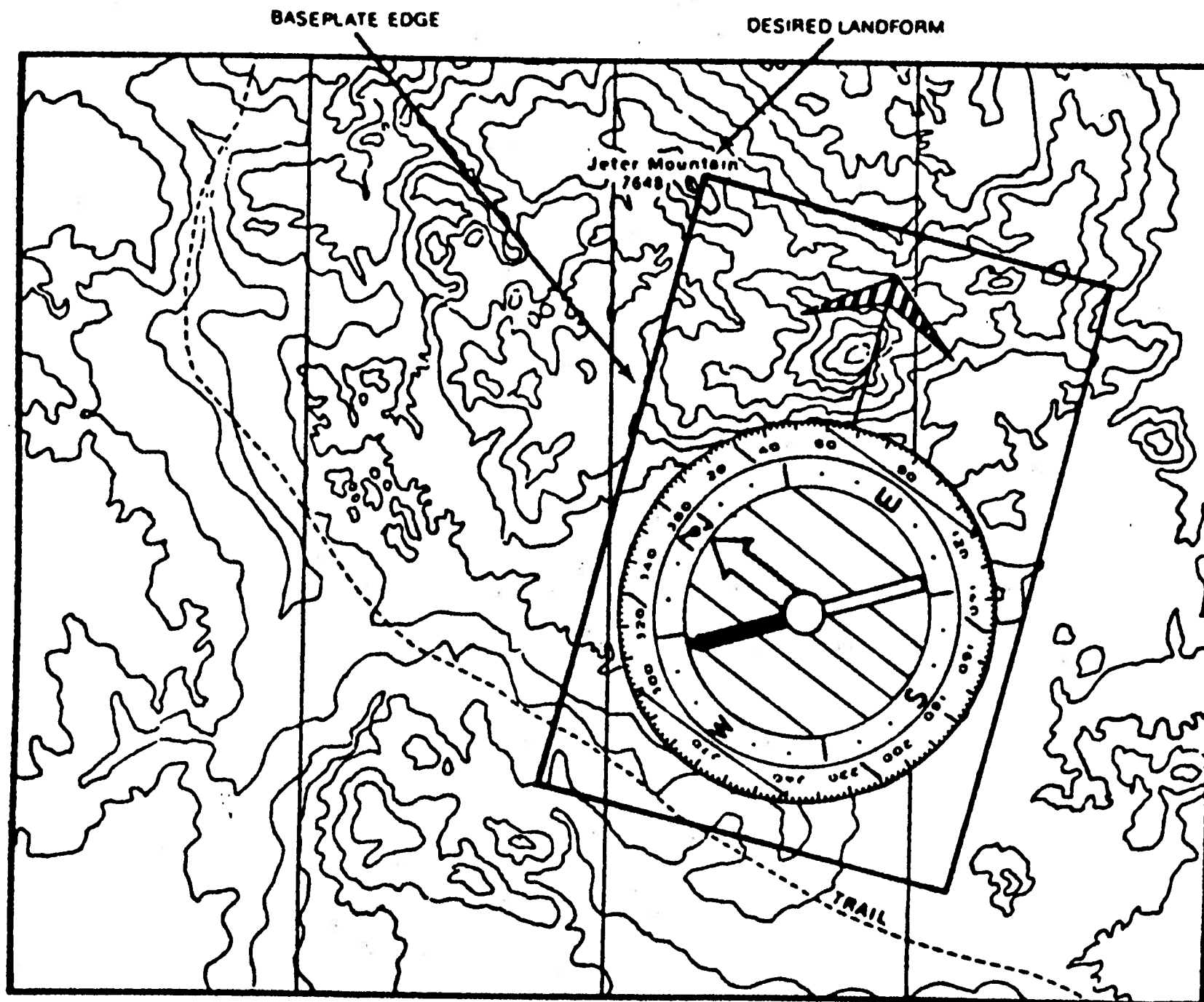
TAKING A BEARING IN THE FIELD

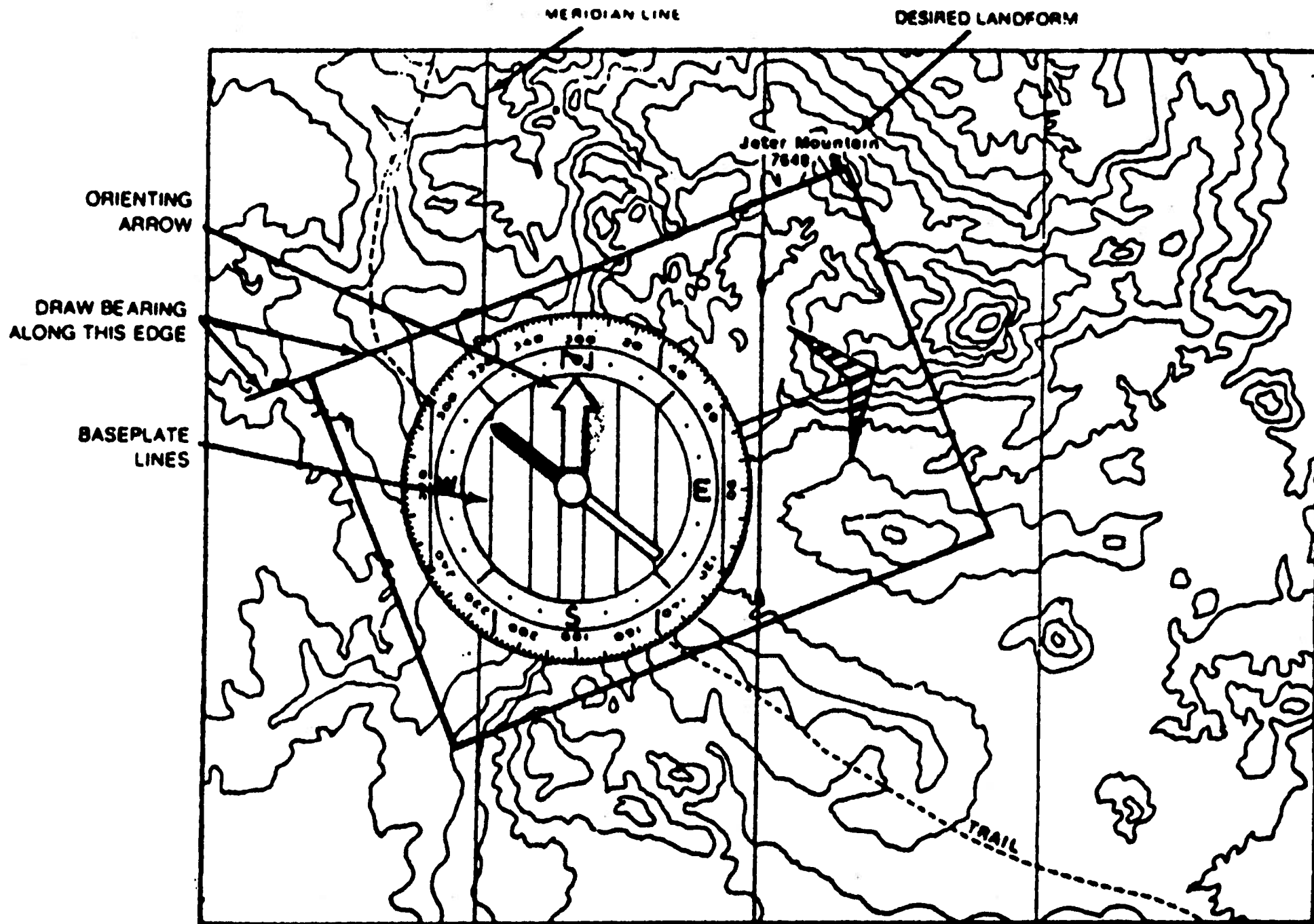


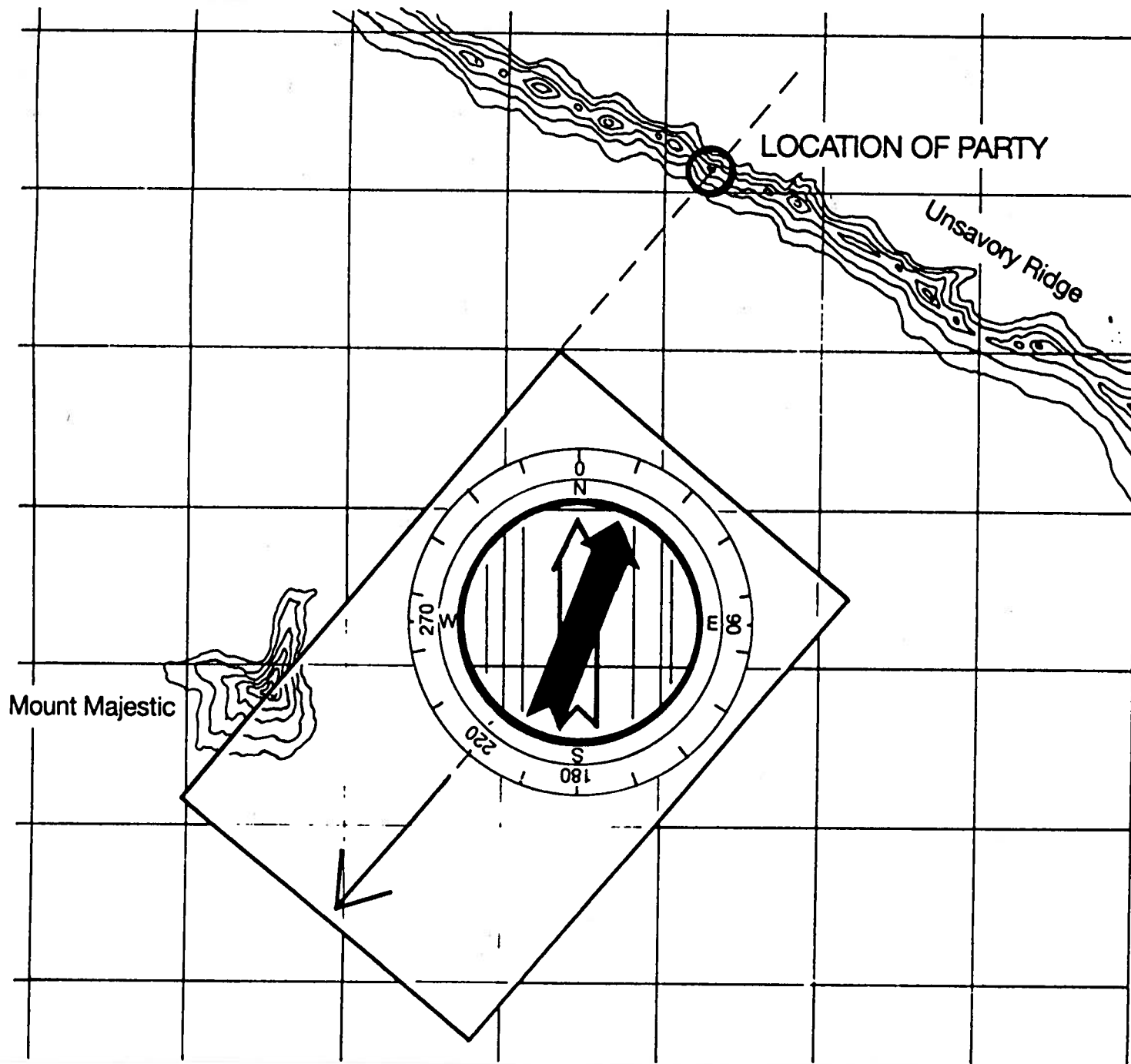
**PLOTTING A BEARING ON A MAP USING
THE COMPASS AS A PROTRACTOR**

ORIENTATION WITH LINE POSITION KNOWN









ORIENTATION WITH LINE POSITION KNOWN

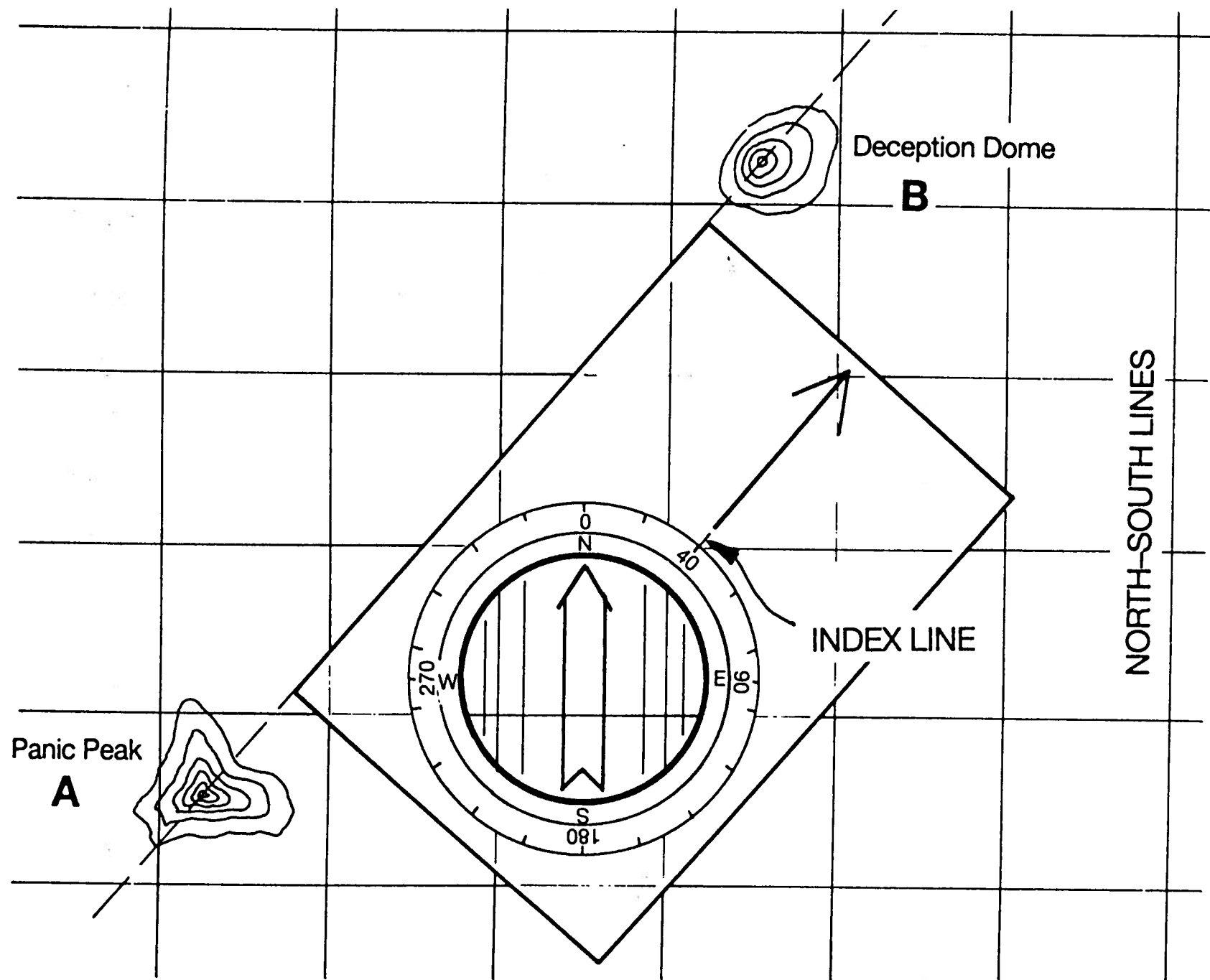
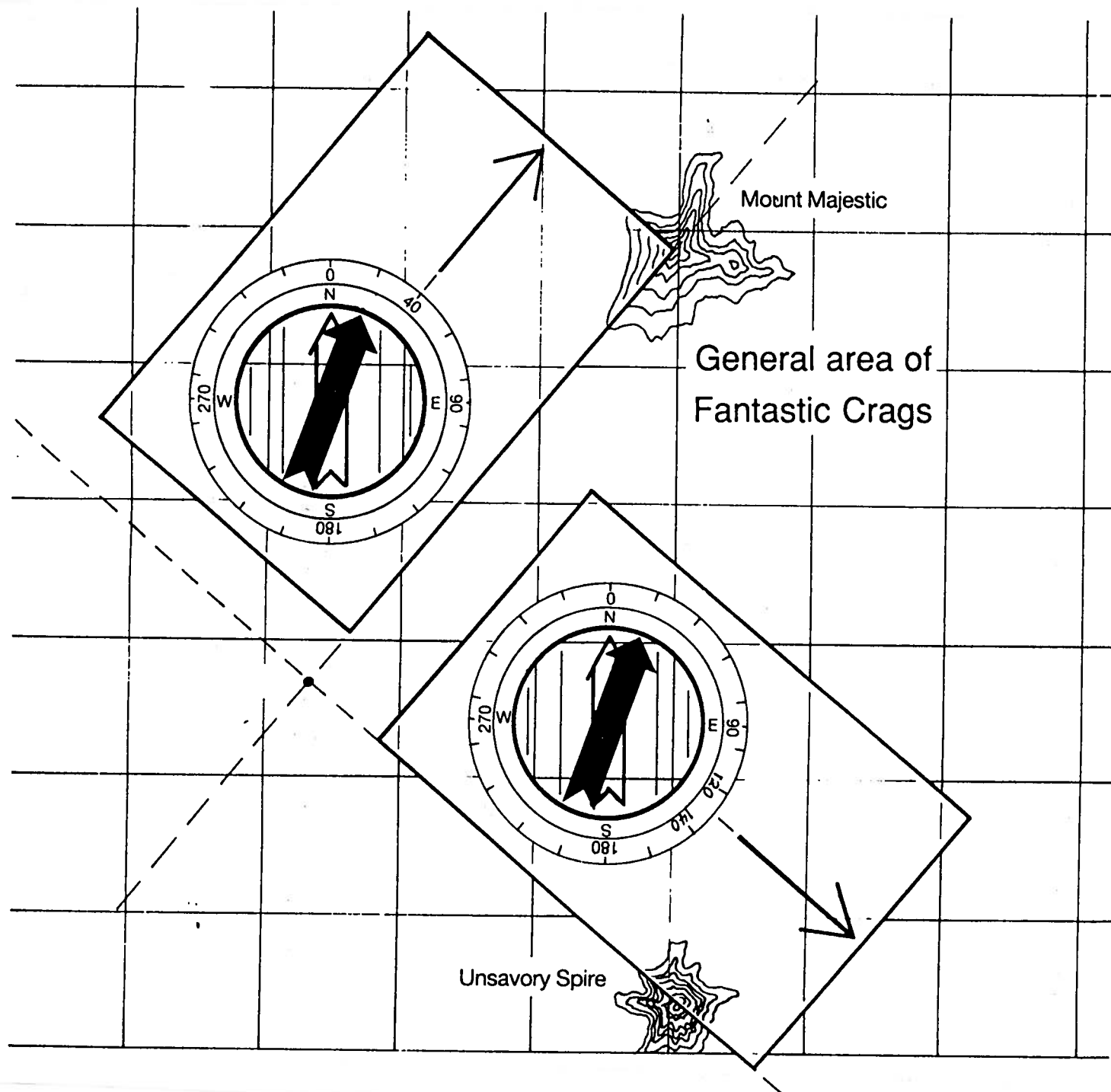


Fig. 4-6. Measuring a bearing on a map with the compass as a protractor



ORIENTATION FROM TWO KNOWN LANDFORMS