STAEDTLER® No. 937 811E Engineer's Computation Pad

63 A bank in downtown Boston is robbed (see the map in Fig. 3-38). To elude police, the robbers escape by helicopter, making three successive flights described by the following displacements: 32 km, 45° south of east; 53 km, 26° north of west; 26 km, 18° east of south. At the end of the third flight they are captured. In what town are they apprehended?

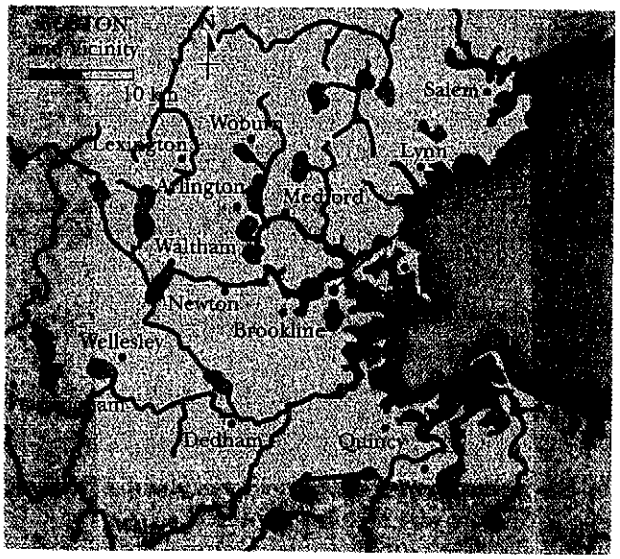


FIG. 3-38 Problem 63.

VECTOR ADDITION

VIA TIP-TO-TAIL METHOD

NET DISPLACEMENT VECTOR

$= \Delta\vec{r} = \Delta\vec{r}_1 + \Delta\vec{r}_2 + \Delta\vec{r}_3$

