Explanation:

○   Hinge point

Structure contours for a limb

Use the structure contours to figure out the limb dip, which is the same dip value for all limbs,
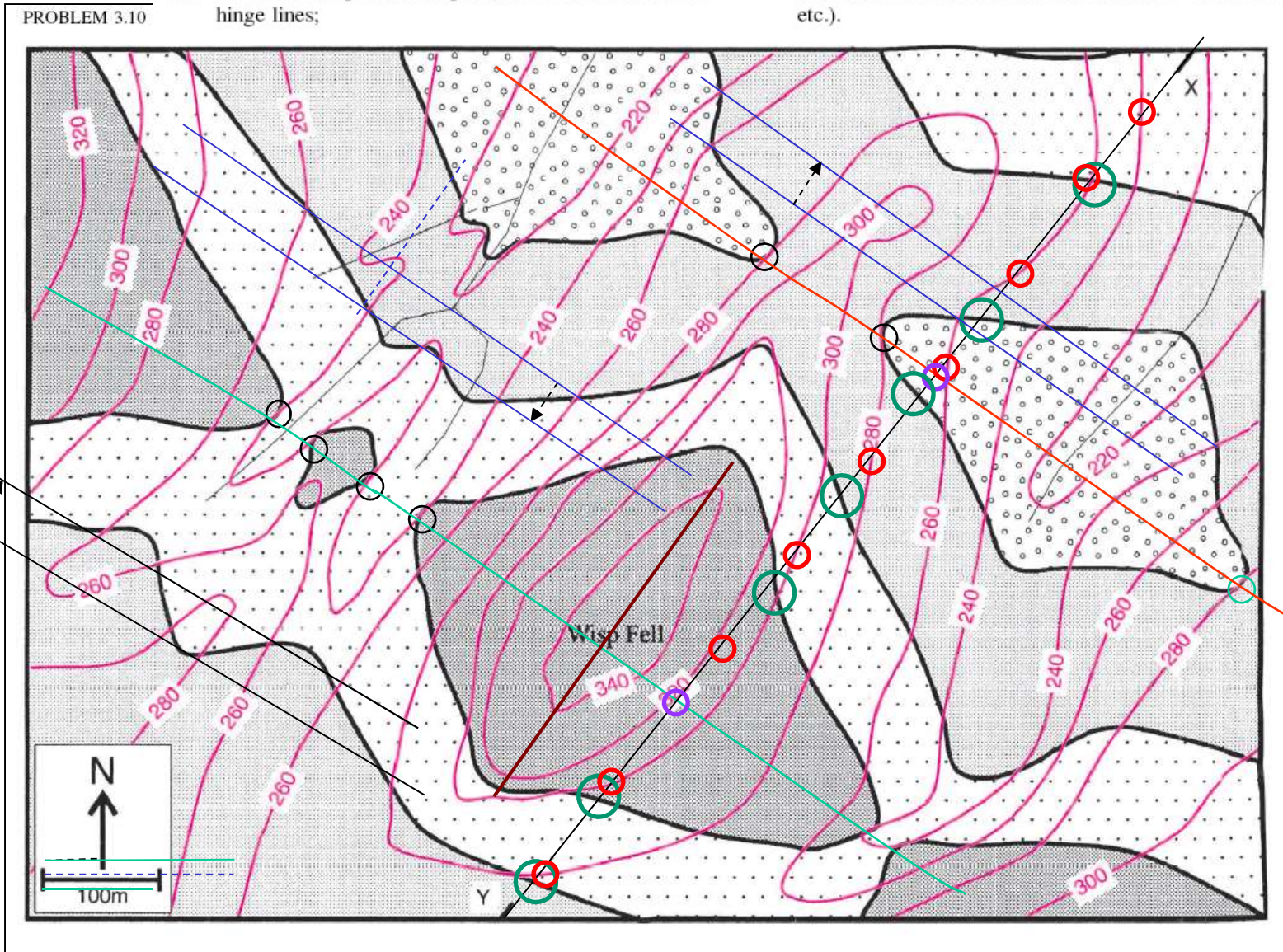
On each map:

(a) mark hinge points, antiformal and synformal axial traces and hinge lines;
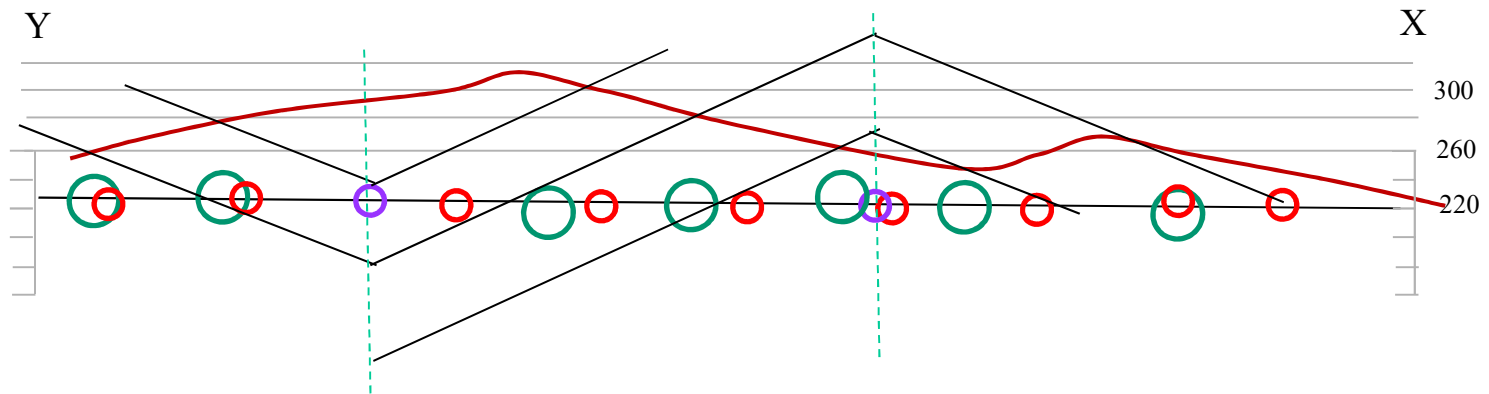(b) determine the plunge and plunge direction of the fold hinge lines;

(c) deduce the general attitude (dip) of the fold axial surfaces;
(d) construct a vertical cross section along the line *X-Y*;
(e) give a full description of the characters of the folds (e.g. tightness, symmetry, bed thickness variations, etc.).

PROBLEM 3.10

320
260
300
280
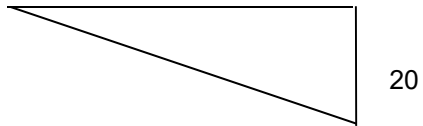240
260
280
300
300
240
260
280
220
220
260
240
260
280
260
300
260
280
260
260

Wisp Fell

340

N

100m

X

Y

# CROSS SECTION

Y                                                                          X

300

260

220

Structure contours 1

44

20

**Dip: TAN X = 20 / 44 = 24º**

**No plunge, horizontal fold axes**

**Vertical axial plane**