

Exercise 4: Rotations

Crossbed Example

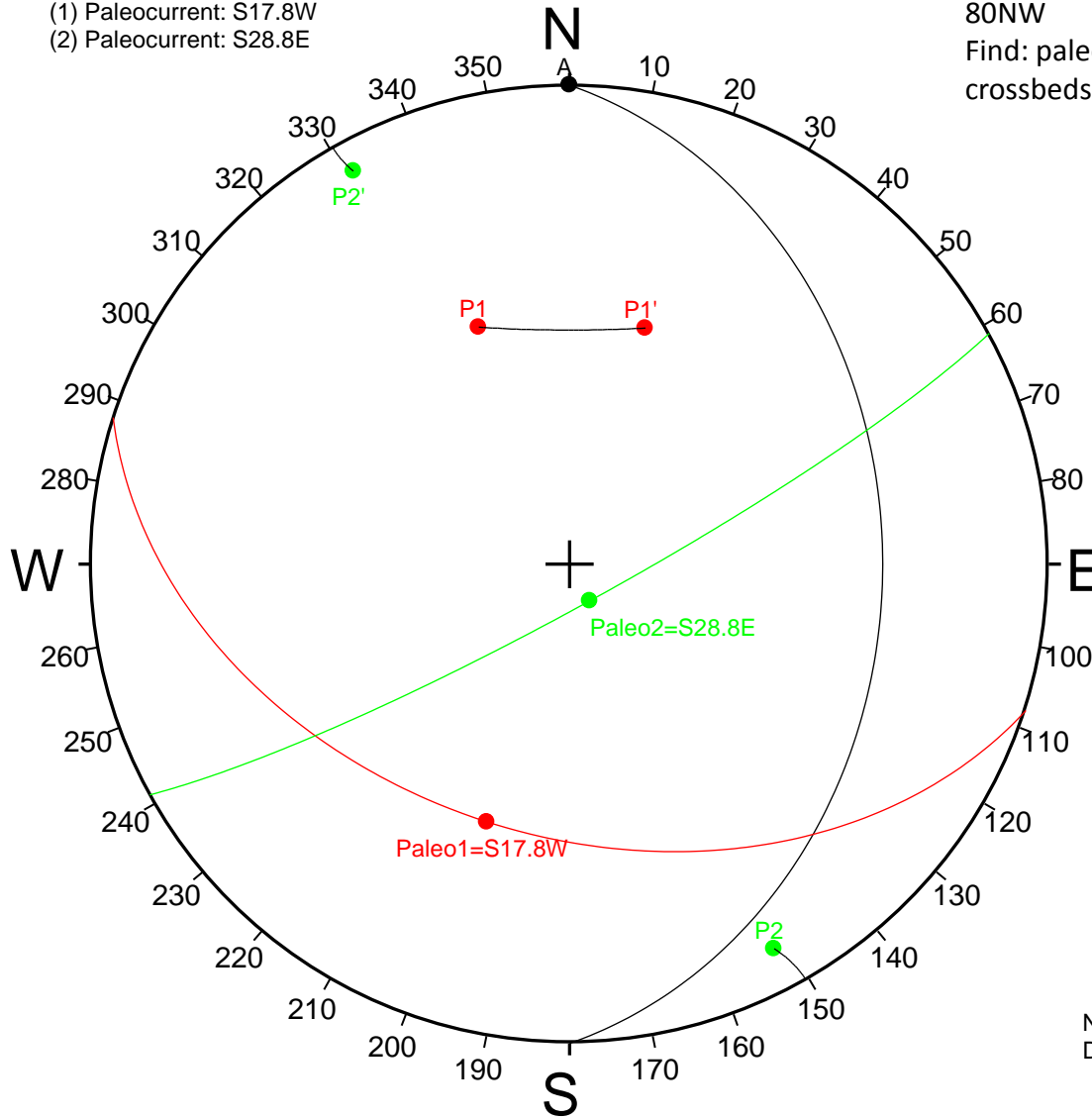
Answers:

(1) Paleocurrent: S17.8W

(2) Paleocurrent: S28.8E

Given: Primary bedding = 000,
35E; (1) crossbed foreset = 069,
44SE; (2) crossbed foreset = 028,
80NW

Find: paleo-current directions for
crossbeds (1) & (2)



Name: N/A
Date Due: N/A

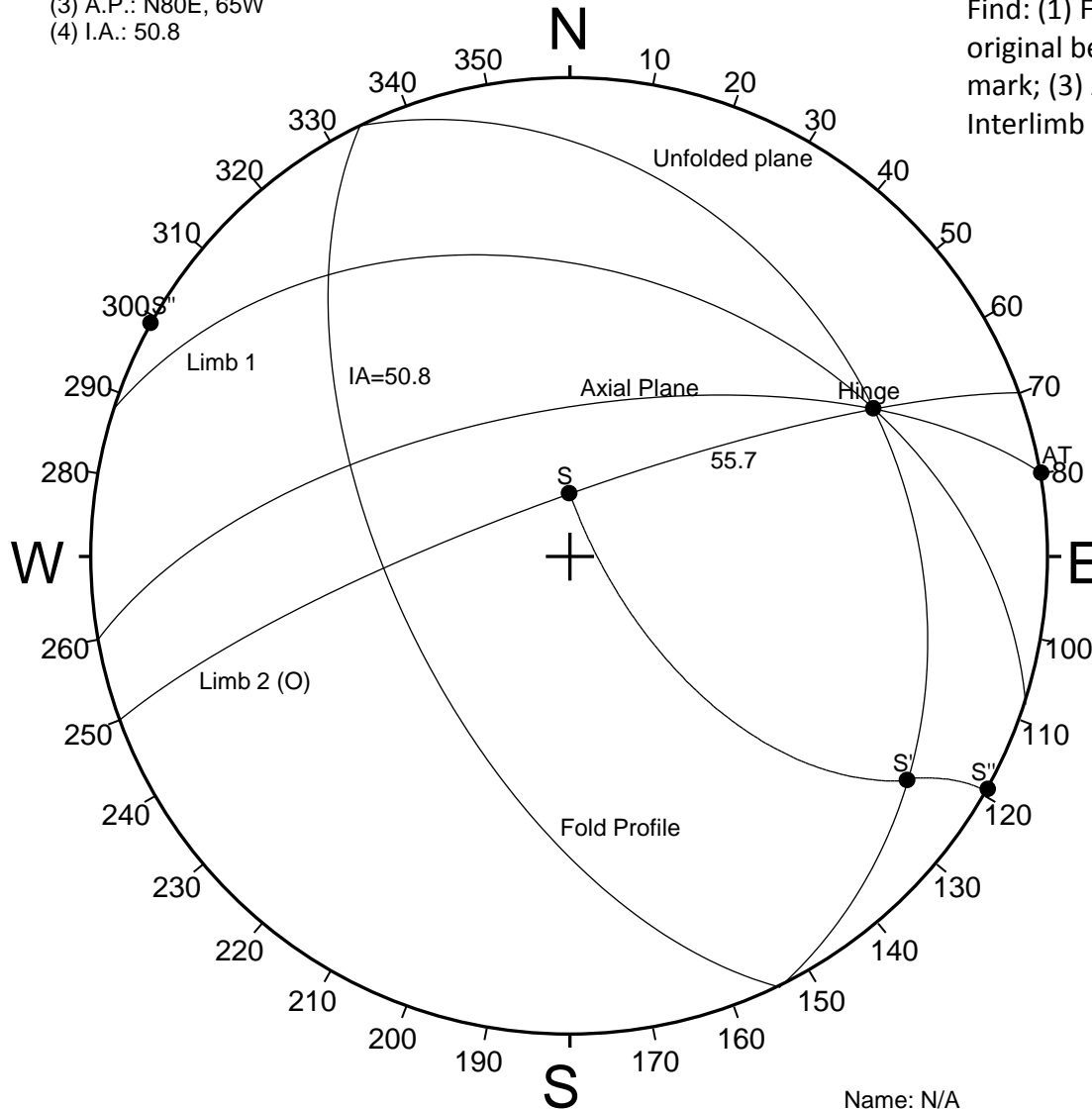
Exercise 4: Rotations
 Example Fold Unfolding Problem

Answers:

- (1) Hinge: N64E, 30
- (2) Paleo.: S61E-N61W
- (3) A.P.: N80E, 65W
- (4) I.A.: 50.8

Given: 2 fold limb attitudes (1) N72W, 40NE; (2) N70E, 80NW; Axial Trace = N80E; a sole mark that trends N00E on the overturned limb.

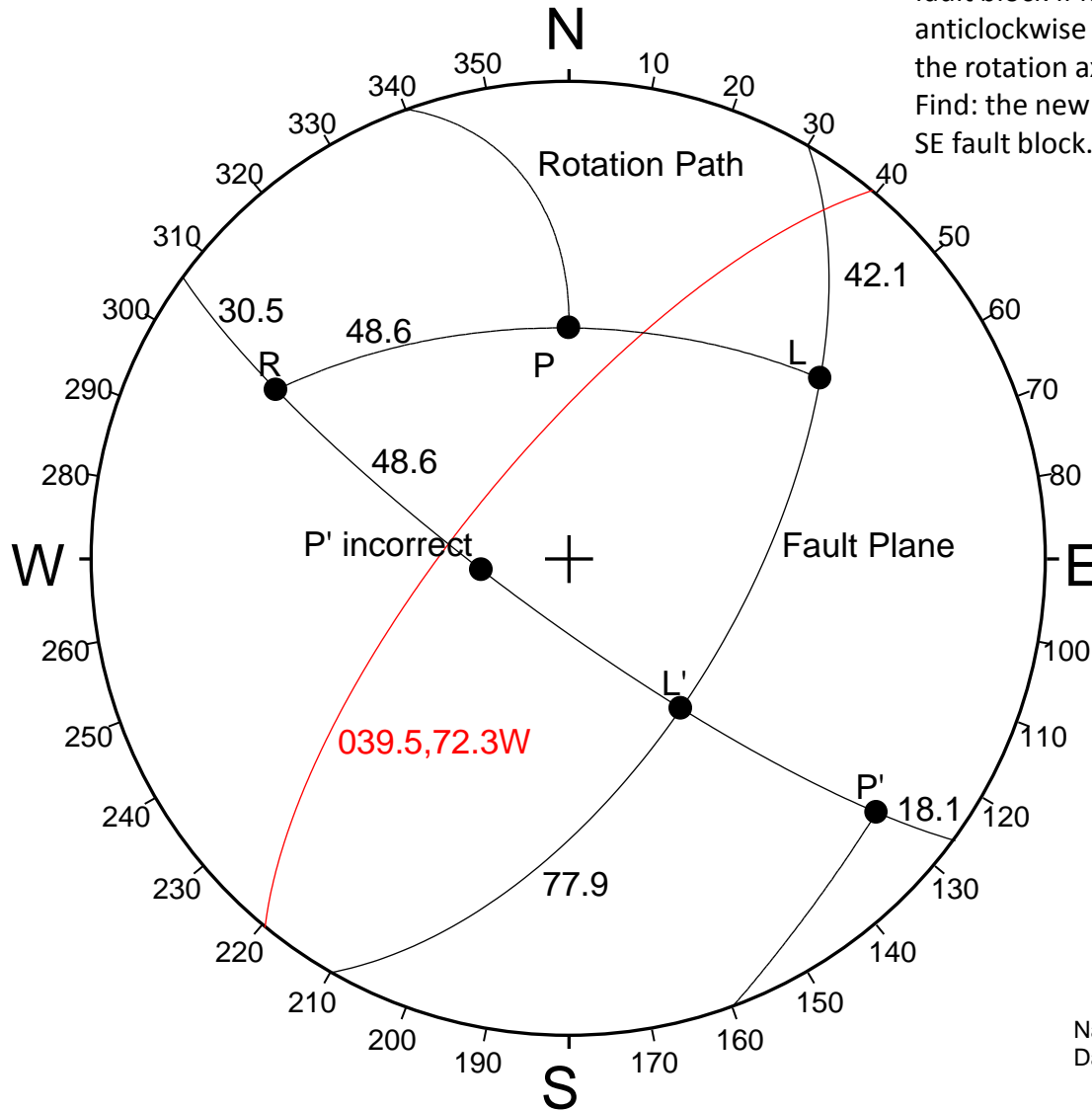
Find: (1) Fold hinge attitude; (2) original bearing (paleo-current) of sole mark; (3) Axial Plane attitude; (4) Interlimb angle of fold



Name: N/A
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 Rotational Fault Example
 Answer: 039.5, 72.3 NW

Given: A planar fault N30E, 60SE, and bedding in the NW fault block of N90E, 40S, find the attitude of bedding in the SE fault block if it rotated 120 degrees anticlockwise as viewed down-plunge of the rotation axis.
 Find: the new attitude of bedding in the SE fault block.



Name: N/A
 Date Due: N/A

Answer: 039.5, 72.2 NW

Rotational Fault Example Alternate

