PROBLEM 4.3
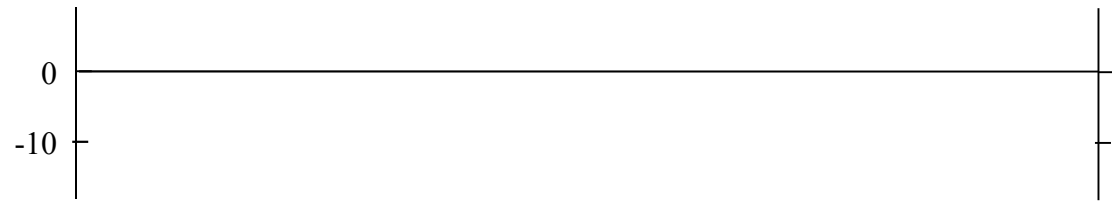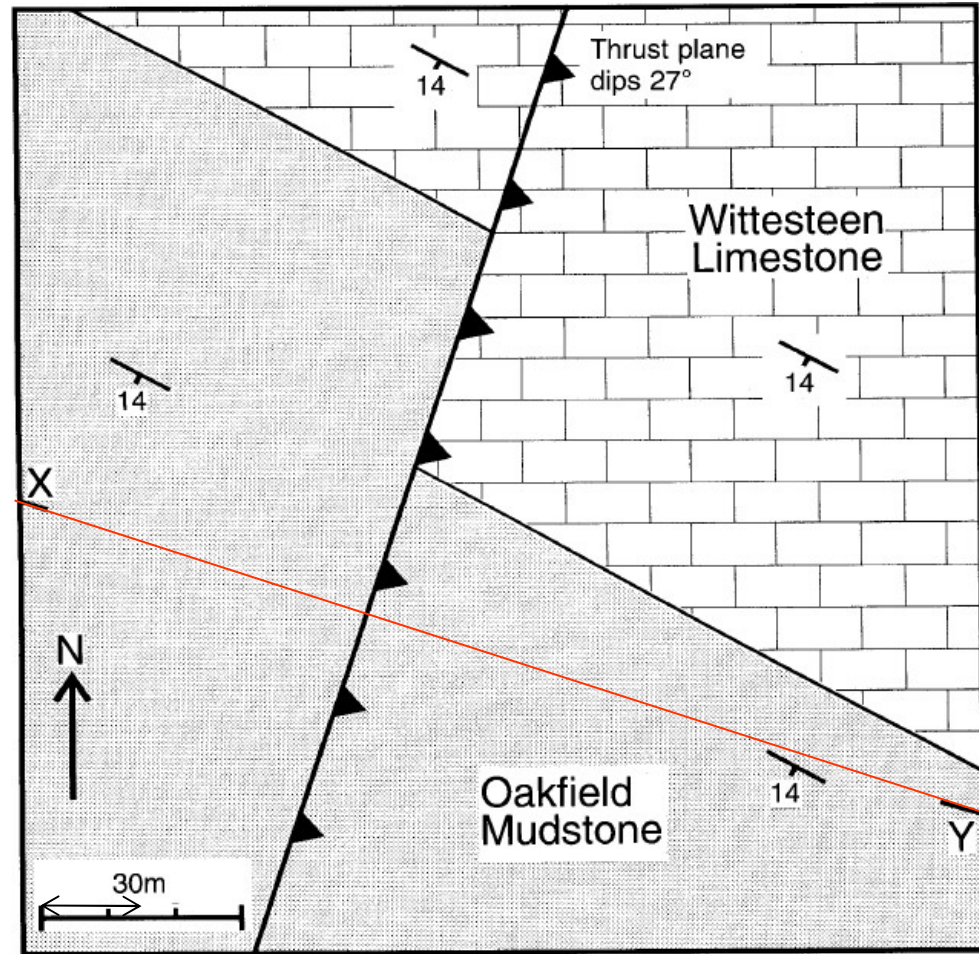
Using the method described in 4.3, calculate:

(a) the strike separation, and
(b) the heave of the thrust fault.

Construct a cross-section along the line X-Y and determine:

(c) the dip separation, and
(d) the throw of the thrust fault.

Thrust plane dips 27°

Wittesteen Limestone

Oakfield Mudstone

14

14

14

14

N

30m

X

Y

0

-10

PROBLEM 4.3

Using the method described in 4.3, calculate:

(a) the strike separation, and
(b) the heave of the thrust fault.

Construct a cross-section along the line X-Y and determine:

(c) the dip separation, and
(d) the throw of the thrust fault.

Spacing of fault structure contours =
X1 = 10 m / TAN 27 ~ **20 m**

Spacing of bedding structure contours
= X2 = 10 m / TAN 14 ~ **40 m**

S ~ 37 m

H = heave ~ 15 m

T = throw = 15 m * TAN 27 = 8 m

Thrust plane dips 27°

Wittesteen Limestone

Oakfield Mudstone

MAP

PROFILE