1) Dowling, Problem 8.3 (a) only.

2) Dowling, Problem 8.8. *Hint*: For part (b), $X_0 = \sigma_0 / S_g = P_0 / P$ where P_0 is from Figure A.16 and P is from part (a)

Suggested problems:

Problems: 8.12 $X_0 = 2.82$, $X_K = 2.21$, b = 53.24 mm
         8.15 *Note*: pressured pipe example in class (Feb 15th) had an error: let 2a = 10 mm, not 100 mm as given in lecture. $X_0 = 3.56$, $X_K = 1.65$
         8.31 (a) $S_{gc} = 46.6$, $S_{gc} = 113.91$ MPa (b) 179.24, 82.84 MPa
         8.32 (650° C) $M_c = 12.86$, $M_o = 13.21$ kN m
               (300° C) 5.50, 21.49 kN m