

## Answer sheet

- Q1 a)  $\rho_0/\rho_1 = (v_s - v_p)/v_s$   
b) 372.7 K,  $2.3 \cdot 10^5$  Pa  
c)  $440 \frac{m}{s}$ , 293 K  
d) 0.76 L

Q2 b) 0.0025

- Q3 b) 2.89, 21.6 N  
c)  $M = 2.35$ , 4.88 N

Q4 c) 0.605

- Q5 b) 216 kN, 30 kN  
c) 0.25, 0.034

- Q6 d)  $R < 1$   
e) more unstable when  $\beta < -2$

Q7 b)  $C = -(v \mp a)$

- Q8 b) 15  
d) 13

No changes needed to paper

