

Practice Problem Set 7: Engineering Mechanics (NMEC101)
Answers

1. $Q = 4P \sin \frac{\theta}{2}$

2. $Q = 3P \tan \theta$

3. $y = 0.453 \text{ m}$

4. $\theta = 31.63^\circ$ and the equilibrium is stable

5. $\theta = 31.63^\circ$ (*stable equilibrium*) and $\theta = 77.08^\circ$ (*unstable equilibrium*)