

Chapter 1

1-4: 54.7 km/hr, 15.2 m/s

1-6: $n = 2$

1-18: 54.1 m

1-28: $M = 45.6$ cm. $K = 39.4$ cm

1-38: $F = 200$ N, $\theta = 41^\circ$

1-54: (a) 5600 m, (b) 6200 m

1-62: $R = 13$ m, θ (relative to - x axis) = 52°

1-64: 370 N, 230 N