

## Answer Key

- 1) 12.5 rad/s
- 2) 2.5 Nm
- 3) a)  $T = 7.5 \text{ N}$  (resting book),  $T = 18.2 \text{ N}$  (hanging book)  
b)  $0.016 \text{ kgm}^2$
- 4) a) 0.31 rad/s  
b) 100 J  
c) 6.67 W
- 5)  $0.600 \text{ kgm}^2$