

2425 QUIZ ANSWERS. Chapters 10 – 13

1. $3.06 \times 10^{-3} \text{ kg m}^2$; 0.408 kg.
2. 0.670 kg m^2
3. 96.0 N m; 0.12 rad/s^2 ; 278 kg.
4. $3.13 \times 10^{-12} \text{ N}$; $3.13 \times 10^{-12} \text{ N}$
5. $-6.25 \times 10^8 \text{ J}$; $-5.63 \times 10^8 \text{ J}$; $3.52 \times 10^3 \text{ m/s}$
6. 8.77 N/m
7. 5.92 m/s^2 .
8. $16g/81 = 1.94 \text{ m/s}^2$.
9. $8w/3 = 2.67w$; $5/3w = 1.67w$.