

1401 QUIZ ANSWERS. Chapters 10 – 14

1. 160 J; 0.137 J.
2.  $-0.224 \text{ rad/s}^2$ ;  $0.670 \text{ kg m}^2$
3. 96.0 N m;  $0.120 \text{ rad/s}^2$ ; 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.  $5.92 \text{ m/s}^2$ .
8.  $1.00 \text{ W/m}^2$ .
9. 288 Hz; 283 Hz.