

University Physics I

Answer Sheet – Homework Set 14

Questions beginning with ** do not have answers on this sheet.

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|------------------------|------------------------------------|
| 258.7 kg | 1405.2 J |
| 1.91 rad/s | 14 N |
| 2.53 J | 6.46 J |
| 3.62 rev | 53 rad/s |
| 60.26° | $\hat{x} + 8\hat{y} + 22\hat{z}$ |
| 0.309 m/s ² | 7 \hat{z} |
| 1.59 m/s | 9.53 m/s |
| 7.67 N | 1.12 m/s ² |
| 8.38 m N | 0.327 m |
| -3.55 m N | 2376 N |
| 167.7 m N | 11.36 N |
| 1.03 s | 7.57 m/s ² |
| 10.3 rev | 24.5 kg |
| 9.22 N | 4.5 kg m ² /s \hat{z} |
| 0.312 | -15.2 m N |
| -3.55 m N | 0.748 rad/s |