W5.05 Basic Vertical Circles - KEY
A ball is being spun in a vertical circle at a constant speed. The ball is connected to the center by a rigid rod supplying a support force. Find the missing values for these vertical circles.
1.

2.

3.


Find the following:
$\mathrm{F}_{\text {support }}(\mathrm{N})=150 \mathrm{~N}$
Period $(\mathrm{s})=2.51 \mathrm{~s}$
4.


Find the following:
$\mathrm{F}_{\text {support }}(\mathrm{N})=0 \mathrm{~N}$
Period $(\mathrm{s})=3.14 \mathrm{~s}$


Find the following: $F_{\text {support }}(N)=-75 N$

Frequency (Hz) $=0.0995 \mathrm{~Hz}$

