4. The centripetal acceleration is calculated from

$$
\begin{aligned}
& a_{c}=v^{2} / \mathrm{r} \\
& a_{c}=(3.0 \mathrm{~m} / \mathrm{s})^{2} /(1.2 \mathrm{~m}) \\
& a_{c}=7.5 \mathrm{~m} / \mathrm{s}^{2}
\end{aligned}
$$

