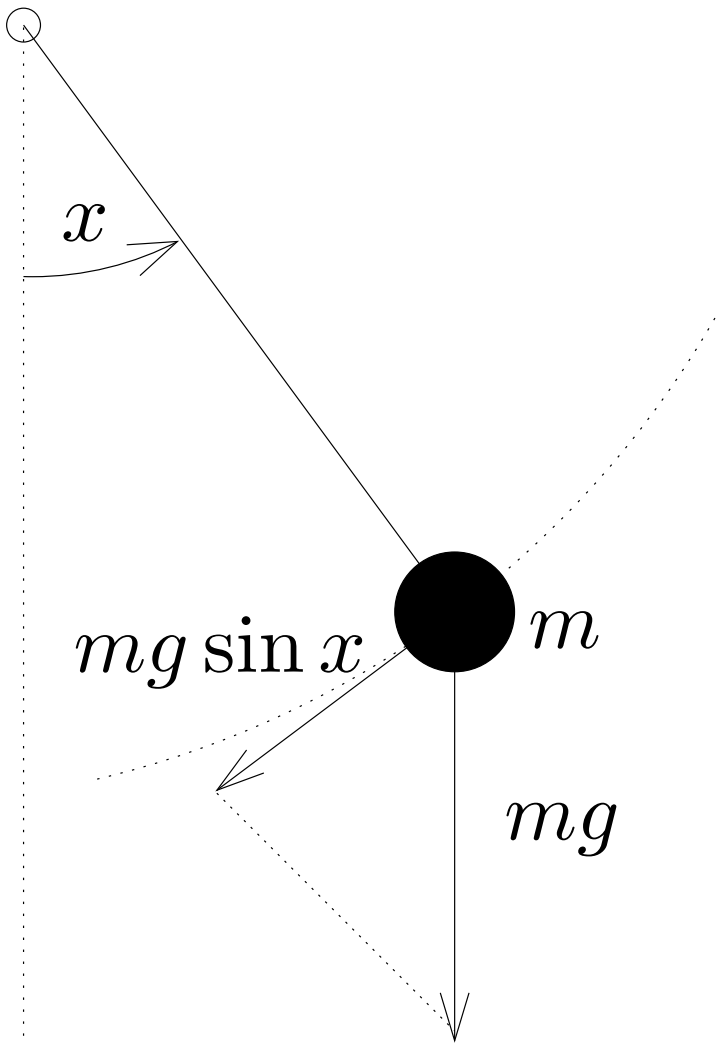
x
$mg \sin x$
m
mg