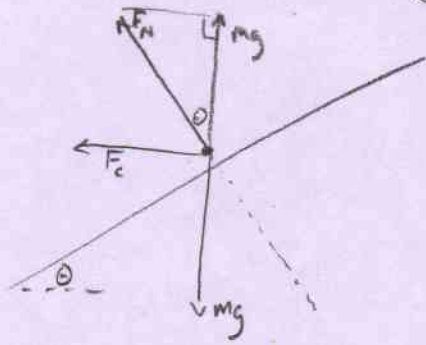


Object on a banked curve:

$$\cos \theta = \frac{mg}{F_N}, \text{ so } F_N = \frac{mg}{\cos \theta}$$



?

Object resting on an inclined plane

