8

Problem) Bus around a cirve

A) when a bus turns along a flat curve, the friction of force is in the direction of?

3 - tatal acceleration

B) A bus is going at a rate of 5.8 fHs² while going around a 290 ft radius at 36 ft/s.

total acceleration = \a2 ten + a2

$$\alpha M = \frac{36^2}{290} = 4.46$$

$$\sqrt{4.46^2 + 5.8^2} = |7.31 \text{ Ft/s}^2|$$

c) determine the temperation!

$$\frac{32^2}{235} = 4.35 \sqrt{-435^2 - 9.6^2} = 8.55 \text{ FH/s}^2$$

D) determine the speed of the bus
of a 287 ft renduis turn of
a total acceleration of 10.1 ft/s<sup>2</sup>
and a tangential acceleration of
4.11 ft/s<sup>2</sup>.

$$\sqrt{10.1^2 - 9.92} = 9.09 \text{ ft/s}^2$$