→ 120mph

$Z = 1.5$ $\dfrac{dz}{dt} = -136 = \dot{Z}$

$y = 1$

x

$x^2 + 1^2 = 1.5^2$
$x = \sqrt{1.25}$

$x^2 + y^2 = Z^2$

$2x\dot{x} + 0 = 2Z\dot{Z}$

$\dot{x} = \dfrac{Z}{x} \cdot \dot{Z} = \dfrac{1.5}{\sqrt{1.25}} \cdot (-136) \approx -182.46$

$\dot{x} < 0 \Rightarrow \dot{x} = v - 120$

Where v is the velocity of the car

So $v - 120 = -182.46$

$v = -62.46$

I think this means the car is headed towards the plane at 62.46 mph