Name

A fish is being reeled in at 2 feet per second, from a bridge 8 feet above the water. Determine the speed that the fish moving through the water when its distance from the bridge is...

-5 J. Haas 2012 $\chi^2 + \gamma^2 = Z^2$ a) 30 feet $2X \frac{dx}{dt} \neq 2y \frac{dy}{dt} = 2Z \frac{dz}{dt}$ 31.0483 8 $2(30)\frac{dx}{dt} + 2(8)(0) = 2(31,0483)(-2)$ $\int \frac{dx}{dt} = -2.07 \frac{ft}{sec}$ b) 6 feet $2 \times \frac{dx}{dt} + 2 \frac{dy}{dt} = 2 \frac{dz}{dt}$ $2(6)\frac{dx}{dt} + 2(8)(0) = 2(10)(-2)$ $\frac{dx}{dt} = -3.3 \quad f_{sec}$