\$3.9, Reloted Rates, Exemples A perfectly spherical balloon is being filled with water at a rate of 2 ft/min. How fist is the radius of the balloon mercesing when the redius is 1/2 f4? We need an equation that relates Volume of sphere w/ its radius. ₩=\$.T.B.(1(H)). # 歌=4·IL(L(H)]· 部

A particul is moving along the graph 3xy-y2=5. At the point (2,1), the X-coordinate is increasing at 3 unit per second. How fest is the y-coordinate morning? 3:xx+3:yx+)-/41.112 3·x(+)·y(+)-(y(+))=5 \\ \frac{dx}{dt}=3 \\ \frac{dy}{dt} 3(学·安什+水什. 些)-2·安什. #=0 3(3.1+2 群)-2.1 禁=0 9+6쐏-2హ-0 4禁=-9 : dy = 9/4 UNIS/Sec or 94 unil/sec, decreesing