



Suppose at a point in time, x = 2 cm and y = 3 cm. Repeated measurements have estimated that both xand y are growing at $\frac{1}{2}$ cm/month. Calculate the rate at which the volume is growing.



At x = 2 and y = 3, estimated growth rates are $\frac{dx}{dt} = \frac{1}{2}$ and $\frac{dy}{dt} = \frac{1}{2}$. Find $\frac{dV}{dt}$

