

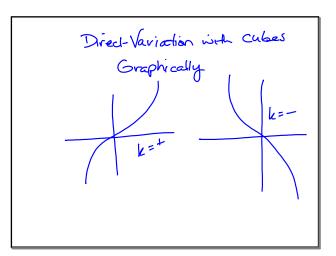
Solving for a variable
$$L = 4.2^{2} \quad \text{find t when } L = 16$$

$$16 = 4.2^{2} \quad \text{find L when } t = 3$$

$$L = 4.(3)^{2}$$

$$L = 4.9$$

$$L = 36$$



y varies directly with xy =  $k \times y$ y varies directly with he square of xy =  $k \times x^2$ y varies directly with the cube of x  $y = k \times x^3$ 

y varies directly with square
of x. find the variation constant
when y=18 and x=3  $18=\frac{k(3)^2}{9} \quad y=2x^2$   $\frac{18}{9}=\frac{k.9}{9} \quad \text{find y when } x=10$   $2=k \qquad y=2(10)^2$  y=2(100) y=200