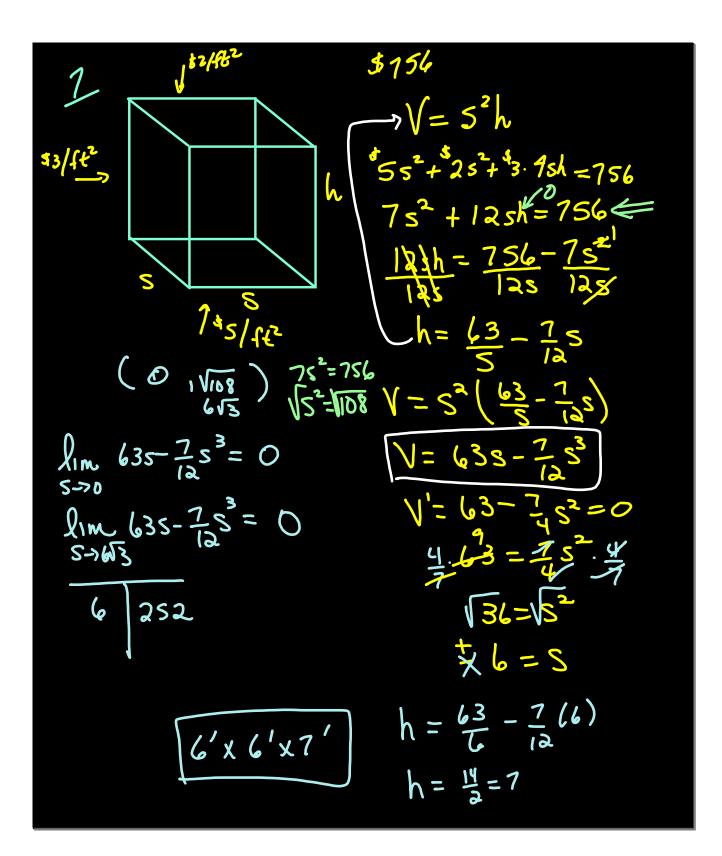
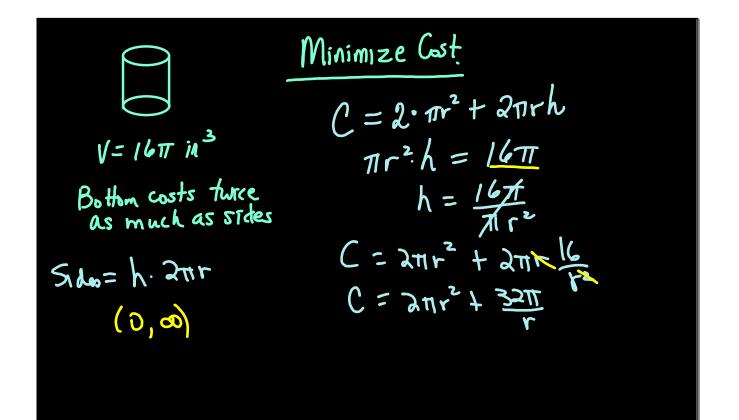
OLUME Maximiz Volume. V=lwh = (4 - 2x)(2.5 - 2x) X $V = (10 - 8 \times - 5 \times + 4 \times^2) \times$ 41  $\frac{1}{2}\sqrt{-1}$   $\frac{1}{4}x^{3} - 13x^{2} + 10x$ (0, 1.25) $V' = 12x^2 - 26x + 10$  $\lim_{X \to 0} 4x^{2} - 13x^{2} + 10x = 0 \quad D = 2(6x^{2} - 13x + 5)$ Rim 4x-13x2+10x=0 0 = a (2x - 1)(3x - 5)x=12 x=5/3 3\*L 5 \* 0.5= 2.25 4z Squares 2.3 1/2 1.22





9 24 trees - 600 apples   

$$f = 600.24$$
 ftree  $1/2$  apples  
 $A = \frac{1}{2} apple ftree  $1/2$  apples  
 $A = \frac{1}{2} apple ftree Maximize apple production$   
 $X = \frac{1}{2} of A = (600 - 12x)(24 + x)$   
added  $A = 14400 + 312x - 12x^2$   
 $A = 14400 + 312x - 12x^2$   
 $600 - 12x = 0$   $A' = 312 - 24x = 0$   $[-0] 50$   
 $Cod = 12x$   
 $50 = x$   $312 = 24x$   
 $13 = x$   $[3] \frac{14,400}{13} = 16428$   
 $24 + 13 = [37 + 25] \frac{50}{200}$$