	T .
Optimization	lest
1) $h(0) = 15.4 + 22.3(0) - 4.9(0)^2$	6 cnt'd) P'(g) = -40 q+6040
= 15.4m	0=-40q, +6040
	409, 6040
2) h'(t) = 22.3 - 9.8t	9:151
2) $h'(t) = 22.3 - 9.8t$ h'(0) = 22.3 - 9.8(0)	
= 22.3 m/s	P(151) = -20(151)2 +6040(151) -300
	= 4-53020
3) h'(t)=22.3-9.6t	
0 = 22.3 - 9.8t	7) SA = TE(2 + (320 ÷ TE(2)
9.9t - 22.3	7) SA = Ter2 + (320 ÷ π12) SA = 2πr - 640 ÷ τer3
$t = \frac{223}{98}$	
≈ 2.285	0 = 2 Tr - 640 + Tr3
	V= 2420 TC & 4.23cm
4) $h\left(\frac{223}{96}\right) = 15.4 + 22.3\left(\frac{223}{96}\right) - 4.9\left(\frac{223}{96}\right)$	2
\$40.78m	320 = π r²·h
	= TI (2 \$ 120 TE). h
5) R(q) = q · p(q)	320 = 855·h
= 9 (39 +6000)	1:9E ~ 1709
$=-3a^2+6000g$	
R'(q) = -69 +6000	•
0=-6g+6000	3
6g = 6000	•
9 = 1000	
B(1000) = -3(1000)2+6000(1000)	•
- 3000000	
6) P(g) = B(g) - C(g)	
6) $P(q) = R(q) - C(q)$ = $(-3q^2 + 6000q) - (17q^2 - 40q + 3q^2 + 6000q)$	3000)
= -392+6000g-1792+40g-3000	
$= -3q^2 + 6000q - 17g^2 + 40q - 3000$ $= -20q^2 + 6040q - 3000$	
	6