



22 a) 700 THOUSAND b) 109 THOUSAND / HR c) 97 THOUSAND / HR

23 a) 94 cm ^(RIGHT) ABOVE, MOVING UP @ 77 cm/s AWAY FROM O, SPEEDING UP @ 42 cm/s²

b) 6 cm BELOW (LEFT) c) d) ALWAYS MOVING RIGHT e) NEVER REVERSES DIRECTION

f) NEVER g) 62 cm/SEC h) $t > \frac{1}{2}$ i) $s(2) = 8, v(2) = 17, a(2) = 18$, @ $t = 2$ MOVING AWAY FROM O

j) 200 cm 24) $\frac{dV}{dx} = 27 \text{ cm}^3 / \text{cm OF LENGTH}$ 25)

26) 45000 m², 300m x 150m 27) ALL SO RENTED

28) $r = 21.54 \text{ cm}, h = 1.37 \text{ cm}$
IF CIRCULAR $r = 23.35 \text{ cm}, h = 1.17 \text{ cm}$

29) 22.25 x 22.25 30) 8.4 km SOUTH OF POINT SHE WANTS TO REACH

32) a) 406.8 mm Hg
b) -30.84 mm Hg / km

31) 392m DOWN THE ROAD FROM THE POINT DIRECTLY ACROSS

33) $h = 6.67 \text{ cm}, r = 8 \text{ cm}$ 34) 11.31 m 35) 4.16m LONG, 1.59m FROM FENCE

