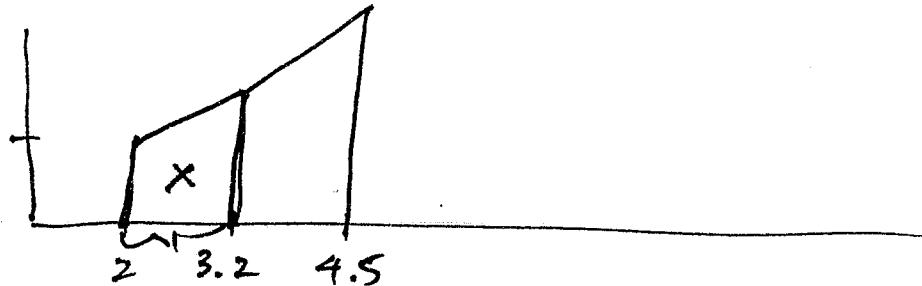


5.5

11)	$\frac{y}{sec}$	2	3.2	4.5
	$y$	$30/3600$	$40/3600$	$50/3600$
	M/S			



$$A = \frac{1}{2}(b_1 + b_2)h$$

$$= \frac{1}{2}(30/3600 + 40/3600) 1.2$$

$$\frac{1}{2}(40/3600 + 50/3600) 1.3$$

29)	$x$	0	4	8	12	16	20	24
	$y$	0	18.75	24	26	24	18.75	0

1  
— 29 —

$$\frac{24}{6.3} [0 + 4(18.75) + 2(24) + 4(26) + 2(24) + 4(18.75) + 0]$$

$$466.6\cancel{7} \text{ in}^2$$

5.5

29)  $n=6$

$$\frac{24}{6} = 4$$

0	4	8	12	16	20	24
0	18.75	24	26	24	18.75	0

TRAP

$$2 [0 + 2(18.75) + 2(24) + 2(26) + 2(24) + 2(18.75) + 0]$$

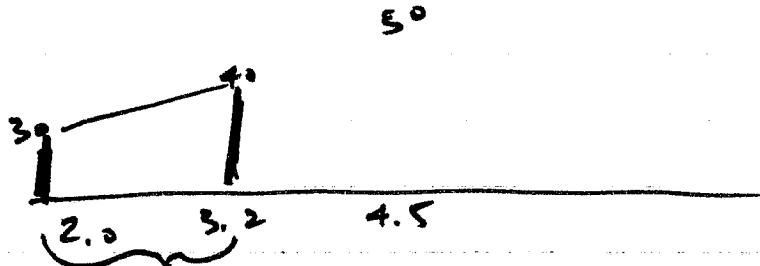
446

SIMP

$$\frac{4}{3} [0 + 4(18.75) + 2(24) + 4(26) + 2(24) + 4(18.75) + 0]$$

466.6

11)



$$\frac{1}{2} [(30+40)1.2 + (40+50)1.3 + (50+60)1.3 + (60+70)1.9 + (70+80)1.8 + (80+90)2.1 + (90+100)3.3 + (100+110)2.9 + (110+120)3.9 + (120+130)4.6]$$

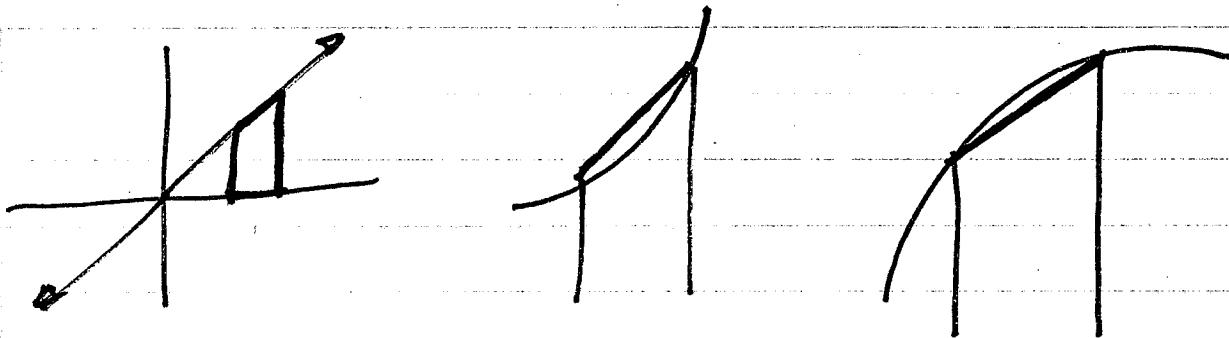
$$0.633 \text{ mi} \times 5280$$

$$3340 \text{ ft}$$

5.5

$$9) \frac{5}{2} [6 + 2(8.2) + 2(9.1) + 2(9.9) + 2(10.5) + 2(11) \\ + 2(11.5) + 2(11.9) + 2(12.3) + 2(12.7) + 2(13)] \\ \approx 533 \\ \frac{x 30}{15,990 \text{ ft}^3}$$

1)



$$(3) \int_0^2 x \, dx ; n=4 \quad \frac{2-0}{4} = \frac{1}{2}$$

0	$\frac{1}{2}$	1	$\frac{3}{2}$	2
0	$\frac{1}{2}$	1	$\frac{3}{2}$	2

$$\frac{1}{6} [0 + 4(\frac{1}{2}) + 2(1) + 4(\frac{3}{2}) + 2]$$

$$\frac{1}{6} [2 + 2 + 6 + 2]$$

$$\frac{12}{6} = (2)$$