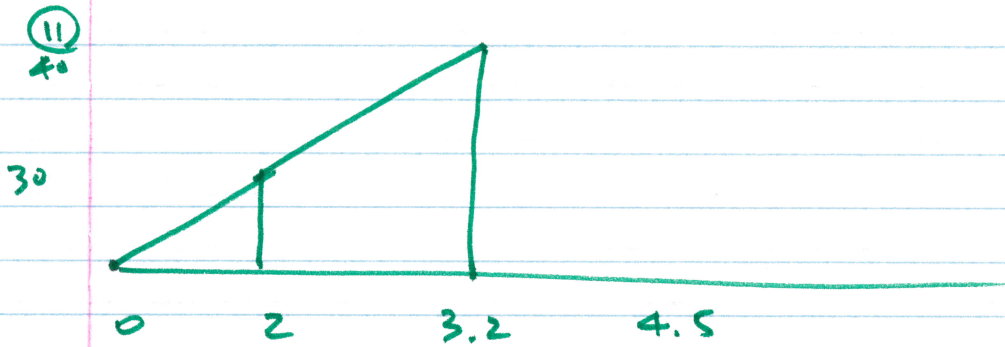


5.5



$$\frac{1}{2} (0+30) \cdot 2 + \frac{1}{2} \text{ mph mph sec} (30+40) \cdot 1.2 + \frac{1}{2} (40+50) \cdot 1.3 + \frac{1}{2} ($$

↓

$\frac{1}{3600}$

↓

$$\frac{1}{2} [(0+30) \cdot 2 + (30+40) \cdot 1.2 + (40+50) \cdot 1.3]$$

$$\frac{b-a}{2n}$$

↑

$$\frac{b-a}{3n}$$

(29)

$$\frac{b-a}{3n} \frac{24}{3 \cdot 6}$$

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

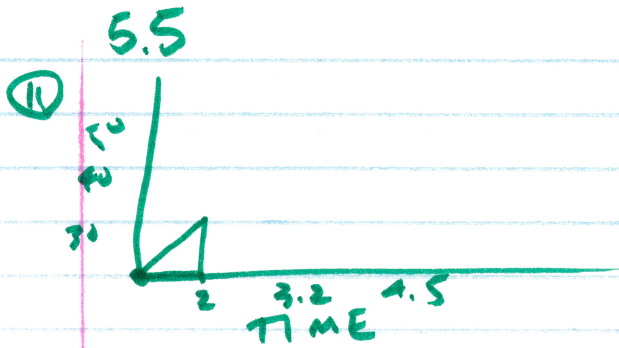
$$466.667 \text{ in}^2$$

(30)

$$\frac{b-a}{3n} \frac{6}{3 \cdot 6} = \frac{1}{3} [1.5 + 4(1.6) + 2(1.8) + 4(1.9) + 2(2) + 4(2.1) + 2.1]$$

~~11.2~~ 11.2

$$\frac{5000 \text{ lb}}{42 \text{ lb/ft}^3} = 119. \frac{\text{ft}^3}{11.2 \text{ ft}^2} = 10.6 \text{ ft}$$



$$A_{1ST} = \frac{1}{2} (0 + 30) \cdot 2 / 3600$$

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

$$A_{3RD} = \frac{1}{2} (40 + 50) \cdot 1.3 / 3600$$

$$A_{4TH} = \frac{1}{2} (50 + 60) \cdot 1.3 / 3600$$

$$A_{5TH} = \frac{1}{2} (60 + 70) \cdot 1.9 / 3600$$

$$A_{6TH} = \frac{1}{2} (70 + 80) \cdot 1.8 / 3600$$

$$A_{7TH} = \frac{1}{2} (80 + 90) \cdot 2.1 / 3600$$

$$A_{8TH} = \frac{1}{2} (90 + 100) \cdot 3.3 / 3600$$

$$A_{9TH} = \frac{1}{2} (100 + 110) \cdot 2.9 / 3600$$

$$A_{10TH} = \frac{1}{2} (110 + 120) \cdot 3.9 / 3600$$

$$A_{11TH} = \frac{1}{2} (120 + 130) \cdot 4.6 / 3600$$

$$\frac{2280.5}{3600} \approx .63347$$

MILES

$$.63347 \times 5280$$

$$3344.733 \text{ FEET}$$

5.5

$$(10) \frac{b-a}{n} = 200$$

$$\frac{200}{2} \left[0 + 2(860) + 2(1110) + 2(1160) + 2(1140) \right. \\ \left. + 2(1000) + 2(800) + 2(520) + 0 \right]$$

$$1,318,000 \times 20 = 26,360,000 \text{ ft}^3$$

$$\frac{\text{volume } 26,360,000}{1000}$$

$$26,360 \text{ fish total} \\ \times .75$$

$$19,770 \text{ fish caught}$$

$$\frac{19,770}{20} = 988.5$$

988 LICENSES

$$(29) \frac{b-a}{n} = \frac{24}{6} = 4$$

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

$$466.667 \text{ in}^2$$

5.5

$$(12) \frac{b-a}{n} = 1$$

$$\frac{1}{2} [0 + 2(3) + 2(7) + 2(12) + 2(17) + 2(25) + 2(33) + 2(41) + 48]$$

$$\frac{162}{3600} \approx .045 \text{ mi}$$

$$.045 \times 5280 \approx \boxed{237.6 \text{ FEET}}$$

$$(30) \frac{b-a}{n} = 1$$

$$\frac{1}{3} [1.5 + 4(1.6) + 2(1.8) + 4(1.9) + 2(2) + 4(2.1) + 2.1]$$

$$\cancel{11.2} \cancel{ft^2} \quad 11.2 \text{ ft}^2$$

$$\frac{5000}{42} = 119.048 \text{ ft}^3$$

$$\frac{119.048}{11.2} = \boxed{10.629 \text{ ft}}$$

5.5

33

$$\frac{\text{LHRS} + \text{RHRS}}{2} = \text{TRAPEZOIDAL}$$

$$\frac{16.6 + ?}{2} = 16.4$$

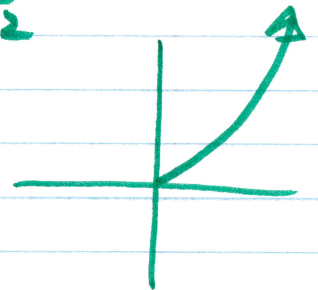
16.2 A

3

$$\int_0^2 x^3 dx \quad n=4$$

$$\frac{2-0}{4} = \frac{1}{2}$$

0	$\frac{1}{2}$	1	$\frac{3}{2}$	2
0	$\frac{1}{8}$	1	$\frac{27}{8}$	8



$$\frac{1}{4} \left[0 + 2\left(\frac{1}{8}\right) + 2(1) + 2\left(\frac{27}{8}\right) + 8 \right]$$

$$\frac{17}{4} = 4.25$$

$$\int_0^2 \frac{1}{4} x^4$$

$$\frac{1}{4} (2)^4 - \frac{1}{4} (0)^4$$

4