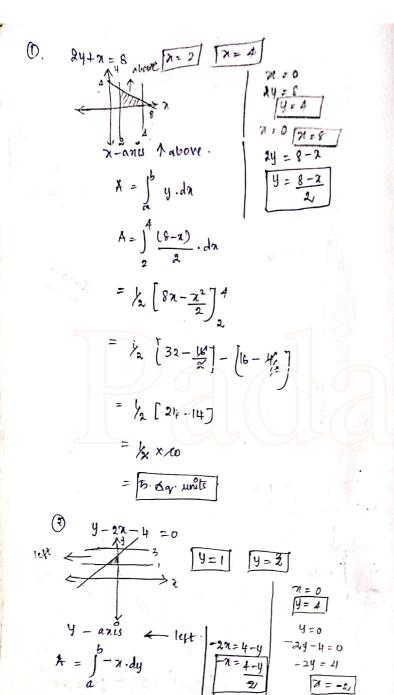
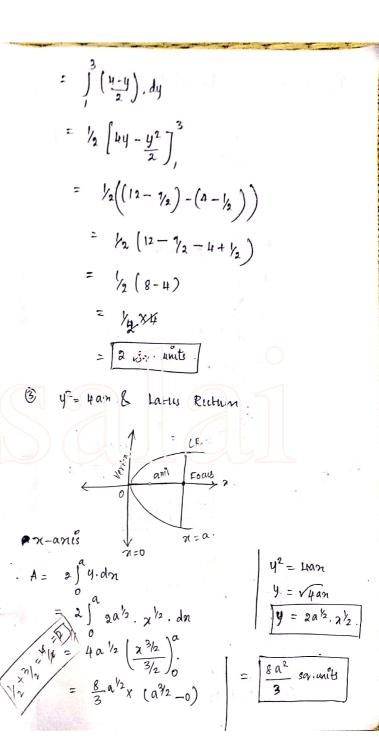
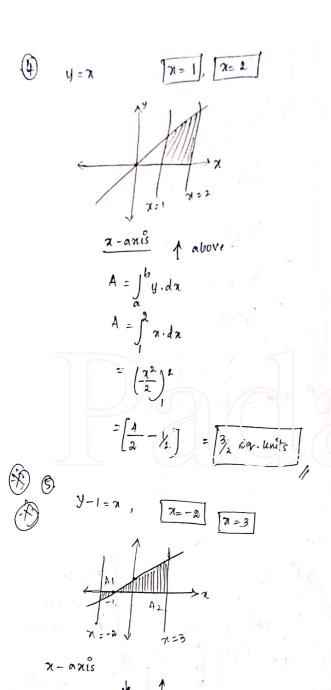
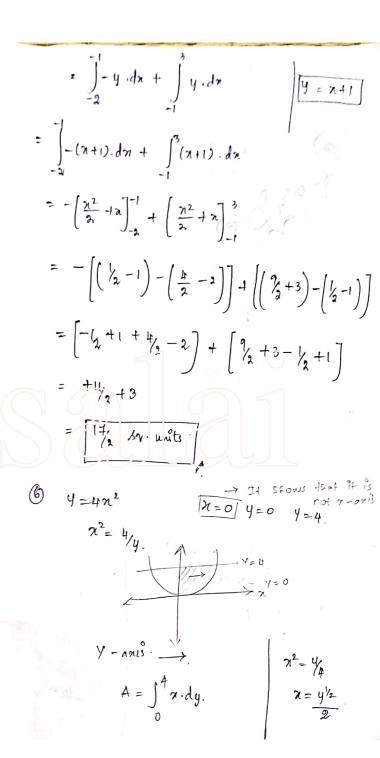


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$$= \int_{0}^{4} \frac{y^{3}/2}{a} dy$$

$$= \int_{3}^{4} \left[\frac{y^{3}/2}{3} \right] dy$$

$$= \int_{3}^{4} \left[\frac{y^{3}/2}{3} \right] dy$$

$$= \frac{1 \times 8}{3}$$

$$= \int_{3}^{4} \frac{y^{2}}{3} dy - un^{2} dy$$

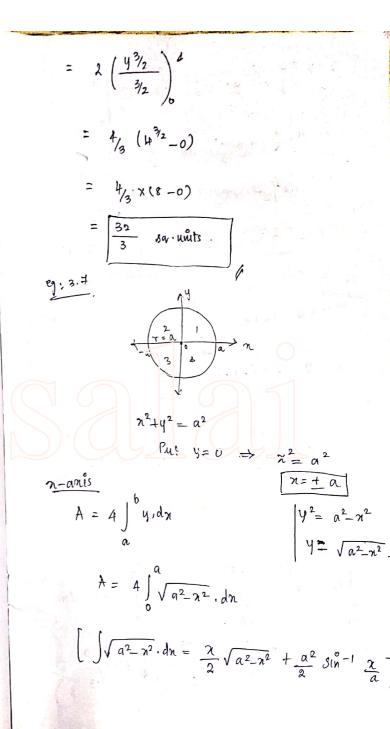
$$= \frac{1 \times 8}{3}$$

$$= \int_{3}^{4} \frac{y^{2}}{3} dy - un^{2} dy$$

$$= \int_{3}^{4} \frac{y^{2}/2}{3} dy - dy$$

$$= \int_{3}^{4} \frac{y^{2}/2}{3} dy - un^{2} dy$$

$$= \int_{3}^{4} \frac{y^{2}/2}{3}$$



$$= 4 \left[\frac{\pi}{2} \sqrt{\alpha^{2} - \chi^{2}} + \frac{\alpha^{2}}{2} \sin^{2} \right] \frac{\pi}{a}$$

$$= 4 \left[\frac{\alpha}{2} \times \sqrt{\chi^{2}} + \frac{\alpha^{2}}{2} \sin^{2} \right] \frac{\pi}{a} - 0$$

$$= 4 \left[\frac{\alpha^{2}}{2} \times \sqrt{\chi^{2}} + \frac{\alpha^{2}}{2} \sin^{2} \right] \frac{\pi}{a} - 0$$

$$= \pi \left[\frac{\alpha^{2}}{2} \times \sqrt{\chi^{2}} + \frac{\alpha^{2}}{2} \sin^{2} \right] \frac{\pi}{a} - 0$$

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$$= \pi \left[\frac{\alpha^{2}}{2} \times \sqrt{\chi^{2}} + \frac{\alpha^{2}}{2} \sin^{2} \right] \frac{\pi}{a} - 0$$

$$= \pi \left[\frac{\alpha^{2}}{2} \times \sqrt{\chi^{2}} + \frac{\alpha^{2}}{2} \times \sqrt{\chi^{2}} + \frac{\alpha^{2}}{2} \times \sqrt{\chi^{2}} \right]$$

$$= \pi \left[\frac{\alpha^{2}}{2} \times \sqrt$$

$$= -\left(\left(\frac{9}{1} - 1 \right) - \left(\frac{36}{4} - 18 \right) \right) + 0 - \left(\frac{9}{1} - 9 \right)$$

$$= -\frac{9}{1} + 1 - \frac{36}{2} + 18 - \frac{9}{2} + 9$$

$$= 36 - \frac{54}{2}$$

$$= 36 - 27 = 9 29 \cdot \text{units}$$

Formula:

(a) Marginal cost $Mc = \frac{dc}{dn}$, $(c \Rightarrow cost)$ (b) $(c \Rightarrow cost)$ $Mc = \frac{dc}{dn}$, $(c \Rightarrow cost)$ (c) $(c \Rightarrow cost)$ (d) Average cost $Ac = \frac{c}{n}$ (e) Marginal Revenue function $MR = \frac{dR}{dn}$ [$R \rightarrow total$ Revenue function $R = \frac{dR}{dn}$ (f) $R = \int (MR) \cdot dn + k$ (g) Demand function $P = \frac{R}{n}$ (g) Total Inventory cost $R = \frac{dc}{dn}$ (g) Total Inventory cost $R = \frac{dc}{dn}$ (g) Total Inventory cost $R = \frac{dc}{dn}$

1 Amount of annulty after N Payment.

- (10) Total dale = 1 b(t). Lt [7= teme]
- 1 Elastility of demand

- $\frac{Ex}{Ex} = \frac{x \cdot dy}{y \cdot dx}$
 - (3) consumer dusphis

$$cs = \int_{0}^{\infty} f(n) \cdot dn - nopo - \int_{0}^{\infty} f(n) = demand$$

Producer's dusplus.

Ps = 2000 - 50 gin dn

of gins - suprly

Total cost [7=300]

= 10,000 +
$$\int_{0}^{300} (2\pi - 240) d\pi$$

= 10,000 + $\left[\frac{2\pi^{2}}{A} - 240\pi\right]_{0}^{300}$

= 10,000 + $\left[\frac{9000}{A} - \frac{79000}{2} - 0\right]$

= 10,000 + $\left[\frac{300}{A} - \frac{1000}{A} + \frac{1000}$

If mid wit
$$[n=0]$$
 $[c=0]$

The second of t

$$C = 2\sqrt{ax+b} + k.$$

$$C = 2\sqrt{ax+b} + k$$

$$k' = -2\sqrt{b}$$

$$C'(x) = \frac{x^2}{200} + 4 = Mc.$$

$$\frac{dc}{dx} = \frac{x^2}{200} + 4$$

$$C = \int_0^{200} \frac{x^2}{400} + 4 = Mc.$$

$$C = \int_0^{200} \frac{x^2}{400} + 4$$

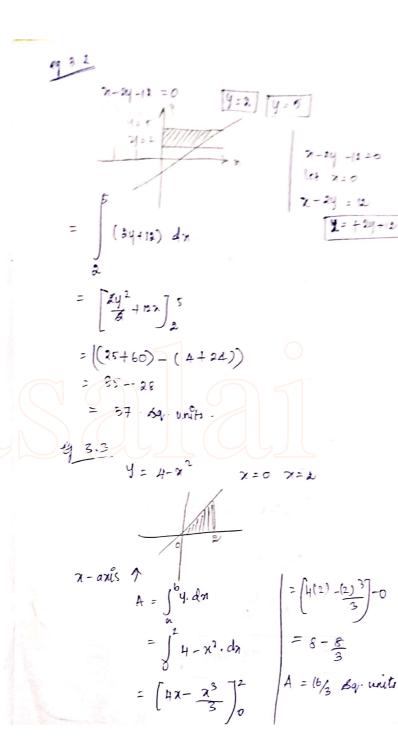


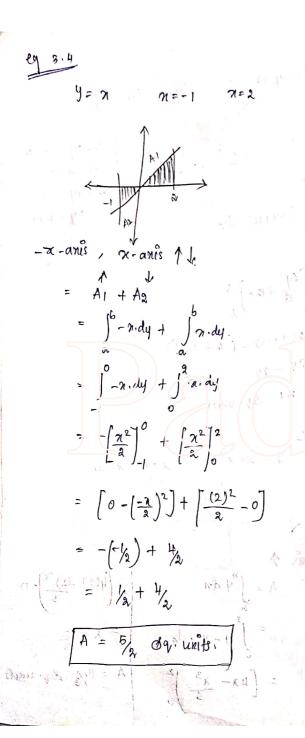
$$\frac{7 = 1}{x = 1}$$

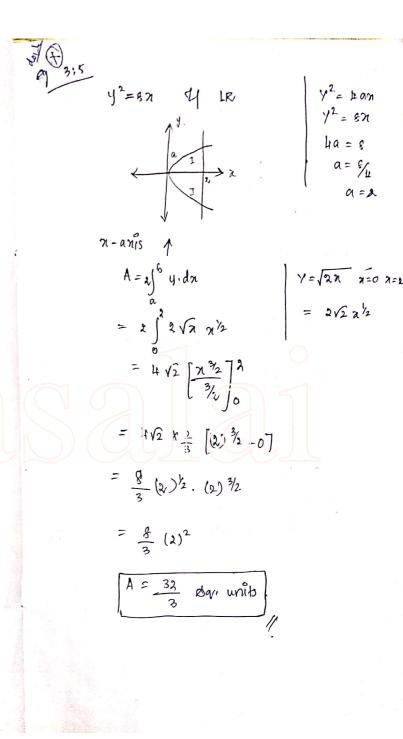
$$\frac{7}{x = 1}$$

$$\frac{4}{x} = \frac{1}{x} + 3x$$

$$\frac{4}{x} + 3x$$







$$x - ans(\Lambda)$$
 $A = 2 \int_{0}^{1} y \cdot dn$
 $a = 2 \int_{0}^{1} (x - y)^{1/2} \cdot dn$
 $y = \sqrt{16\pi}$
 $y = \mu \cdot x/2$

$$= 8 \left[\frac{\lambda^{3/2}}{3/2} \right]^{\frac{1}{4}}$$

$$= 8r\frac{2}{3}[(4)\frac{3}{2}-(0)\frac{3}{2}]$$

$$A = \frac{128}{3} \text{ sq. units}.$$

$$0 \text{ MC} = 5 + 3e^{-0.03x}$$

$$R = \int (MR) \cdot dn$$

$$R = \int (5 + 3e^{-0.037}) \cdot dn$$

$$= \left(57 + 3e^{-0.03\lambda}\right)^{100}$$

$$= 500 \rightarrow \frac{e^{-3}}{-0.01} - \left(0 \rightarrow \frac{e^{0}}{-0.01}\right)$$

$$= 500 + \frac{-0.01}{0.02} + \frac{0.01}{1} \times \frac{100}{100}$$

$$\frac{500 - 5}{1 + 100}$$

$$R = \int (q - \mu n^2) \cdot dn + k$$

$$R = 9n - 4n^3 + k$$

demand function P,
$$\Gamma/n$$

$$\begin{bmatrix}
P = q - \frac{1}{2n} \\
\frac{1}{3}
\end{bmatrix}$$

$$R = \int \frac{1}{(2n+3)^2} - 1$$

$$R = \int \frac{1}{$$

AR =
$$\frac{1}{n}$$
 = $\frac{-2}{n(2n+3)}$ - $1 + \frac{2}{3n}$

= $\frac{-1}{n(2n+3)}$ + $\frac{2}{3n}$ - 1

= $\frac{-6n + 2n(2n+3)}{3n^2(2n+3)}$ - 1

= $\frac{-4n + 4n^2 + 4n^2}{3n^2(2n+3)}$

= $\frac{-4n + 4n^2 + 4n^2}{3n^2(2n+3)}$

= $\frac{-4n + 4n^2 + 4n^2}{(6n+4)}$

R = $\frac{-1}{(6n+4)}$

(9)
$$MR = 20-5n+3n^2$$

$$\int MR = \int 20-5n+3n^2$$

$$R = \begin{cases} 20n - \frac{5n^2}{2} + \frac{3n^2}{3} + k \end{cases}$$

$$R = \begin{cases} 20n - \frac{5n^2}{2} + n^3 + k \end{cases}$$

$$\pi = 0 \quad R = 0 \quad k = 0$$

$$\boxed{R = 20n - \frac{5n^2}{2} + n^3}$$

MR =
$$14-6n+4n^2$$
 $|MR = j | 14-6n+6n^2$
 $R = 14m-\frac{5}{2}n^2+\frac{3}{2}n^3+12$
 $R = 14m-3n^2+3n^3+12$

When $n=0$ $R=0$ $k=0$
 $R = 14m-3n^2+3n^3$

Demand function $P = \frac{R}{n}$
 $P = 14-3n+3n^2$

(b)
$$(1/n) = 5+0.13\pi$$

$$\int c^{1}(m) = \int (5+0.13\pi) \cdot dm$$

$$C = 5\pi + 0.13\pi^{2} + 16$$

$$\pi = 0, \quad (...) = 120$$

$$120 = 0+0+6$$

$$k_{1} = 120$$

$$C = 5\pi + 0.13\pi^{2} + 120$$

$$C = 5\pi + 0.13\pi^{2} + 120$$

$$R = 18\pi + 162$$

$$R = 18\pi + 162$$

$$R = 18\pi - 162$$

$$R = 16\pi - 162$$

$$R =$$

(E)
$$R'(N) = 1500 - 4n - 3n^{2}$$
.

 $R = 1500n - \frac{1}{4}x^{2} - \frac{3n^{3}}{x^{3}} + K$
 $R = 1500n - 2n^{2} - n^{3} + K$
 $R = 0 = 1 - 1500n - 2n^{2} - n^{3}$
 $AR = \frac{R}{n}$
 $= 1500n - 2n - n^{2}$
 $AR = \frac{R}{n}$
 $= 1500n - 2n - n^{2}$
 $AR = \frac{R}{n}$
 $= 10n + 3n^{2} - n^{3} + K$
 $R = 0, n = 0, K = 0$
 $= 10n + 3n^{2} - n^{3} + K$
 $R = 0, n = 0, K = 0$
 $= 10n + 3n^{2} - n^{3} + K$
 $= 10n + 3n^{2} - n^{3} + K$

(1) MC =
$$\frac{111000}{\sqrt{3}n+4}$$
 FC = $\frac{16000}{\sqrt{3}n+4}$

(= $\frac{114000}{\sqrt{3}n+4}$ dn + R

= $\frac{2000}{\sqrt{3}n+4}$ 2n + R

= $\frac{2000}{\sqrt{3}n+4}$ + R

= $\frac{2000}{\sqrt{3}n+4}$ + R

= $\frac{2000}{\sqrt{3}n+4}$ + R

[1000 = $\frac{2}{\sqrt{3}n+4}$ + R

[1000 = $\frac{2}{\sqrt{3}n+4}$

$$\frac{dt}{dn} = k_1 x$$

$$dc = k_1 x \cdot dn$$

$$\gamma = 0$$
 $C = 5,000$

$$k = \frac{n^2}{4} + 5000$$

B P=1000
$$T=54$$
. =0.05 $n=5$

Amount after annuity $N = \int_{0}^{N} Pe^{rt} dt$.

= $\int_{0}^{5} 1000 e^{0.05t} dt$

= $\frac{1000}{0.05} \left(e^{0.25} - e^{0.5} \right)$

It oldinguost
$$G = 500 - 0.03n^2$$

It oldinguost $G = 0.3 \quad t = 30$

To fall inventory cast

 $TIC = Ci \int_{0.5}^{1} I(a) da$

$$= 0.3 \int_{0}^{30} (500 - 0.03 x^{2}) \cdot dn$$

$$= 0.3 \left[(500 x - 0.03 x^{2}) \right]_{0}^{30}$$

$$= 0.3 \left[(5000 - 0.01 x (50)^{2} - 0) \right]$$

$$= 0.3 \left[(5000 - 240) \right]$$

$$= 0.3 x (4430)$$

$$= 4419$$
(3)
$$y = 4 - x$$

$$\frac{-1}{x} \cdot \frac{dx}{dp} = \frac{4 - x}{x}$$

$$\frac{-1}{x} \cdot \frac{dx}{dp} = \frac{4 - x}{x}$$

$$\frac{dx}{dp} = \frac{4 - x}{x}$$

Continuer Surplus (demand)

$$CS = \int_{0}^{10} f(x) dx - 20p0$$
 [canalidatium Ph = Po]

Roducer's dusplus (dusplus) fine)

 $PS = 20p0 - \int_{0}^{20} f(x) dx$

Frencise 3.3

 $P = 50 - 2x$, $x = 20$
 $P = 50 - 40 = 10$
 $\frac{1}{12} = 10$
 $C_{11} = \int_{0}^{20} f(x) dx - 20p0$
 $C_{12} = \int_{0}^{20} f(x) dx - 20p0$
 $C_{13} = \int_{0}^{20} f(x) dx - 20p0$
 $C_{14} = \int_{0}^{20} f(x) dx - 20p0$
 $C_{15} = \int_{0}^{20} f(x) dx - 2pp$
 $C_{15} = \int_{0}^$

$$85 + 85 = 5x + 32$$

$$(20 = 8x)$$

$$x = 15$$

$$P = 85 - 5(16) = 10$$

$$CS = \int_{0}^{10} \{(x) dx - x_{0}\}_{0}^{10}$$

$$= \int_{0}^{15} (85 - 5x) - 150$$

$$= 85(15) - 5x 225 - 0 - 150$$

$$= 85(15) - 5x 225 - 0 - 150$$

$$CS = 562.5$$

$$CS = 562.5$$

$$P = e^{-x}$$

$$P = e^{-x}$$

$$P = e^{-x}$$

$$2 = e^{-x}$$

$$4 = e^{x}$$

$$4 = e^{x}$$

$$4 = e^{x}$$

$$c_{5} = \int_{0}^{20} I(x) dx - 2000$$

$$= \int_{0}^{109} \frac{1}{x} dx - 109 x / x$$

$$= \left[\frac{e^{-x}}{-1} \right]_{0}^{109} \frac{1}{x}$$

$$= -1 \left[e^{-1072} - e^{0} \right] - \frac{1}{x} \log x$$

$$= -\left(\frac{1}{x \log x} - 1 \right) - \frac{1}{x} \log x$$

$$= -\left(\frac{1}{x \log x} - 1 \right) - \frac{1}{x} \log x$$

$$= \frac{1}{x} \left(\frac{1 - \log x}{x \log x} \right)$$

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(a) Pd = 1600 -
$$\pi^2$$
 Ps = $2\pi^2 + 400$
(b) equilibrium.
Pd = Ps
 $1600 - \pi^2 = 2\pi^2 + 400$
 $1600 - 400 = 2\pi^2 + \pi^2$
 $1600 - 400 = 2\pi^2 + \pi^2$
 $1600 - 20^2 = 1600 - 400$
P = $1600 - 20^2 = 1600 - 400$
Ps = $2000 - 100$
Ps = $2000 - 100$
= $24000 - 100$
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= $24000 - 100$
= $24000 - 100$

(9)
$$Pd = \frac{8}{x+1} - 2x$$
, $Ps = \frac{2x+3}{2}$
 $equi$
 $Pd = Ps$
 $\frac{8}{2x+1} - 2 = \frac{2x+3}{2}$
 $\frac{8-2x-2}{2x+1} = \frac{2x+3}{2}$
 $\frac{6-2x}{2x+1} = \frac{2x+3}{2}$
 $\frac{7}{2x+1} = \frac{2x+3}{2}$
 $\frac{7}{2$

$$P^{2} - 36P = 0$$

$$P(P - 36) = 0$$

$$P = 0$$

$$P = 0$$

$$P = 36$$

$$X = \sqrt{100 - 36} = \sqrt{64}$$

$$X = \frac{1}{2} = 8$$

$$X = \sqrt{100 - P}$$

$$Y = 100 - P$$

$$P = 100 - N^{2}$$

$$P = \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$$

$$P = \frac{1}{2} = \frac{1}{2} + \frac{1}{2} = \frac{1}$$

$$P_{5} = 20 \, po - \int_{0}^{\infty} 1 \, x \, dx$$

$$= 288 - \int_{0}^{\infty} (2 \, x + 2 \, v) \, dx$$

$$= 288 - \left(\frac{2 \, m^{2}}{2^{2}} + 20 \, \frac{x}{2} \right)^{8}$$

$$= 288 - \left(64 + 160 - 0 \right)$$

$$= 288 - 224$$

$$= 64 \, y$$

$$P_{d} = 25 - 3x$$

$$P_{5} = 5 + 2x$$

$$c_{3}x^{2} = 5 + 2x$$

$$25 - 3x = 5 + 2x$$

$$26 - 5 = 2x - 3x$$

$$20 = 5x$$

$$x = \frac{20}{5}$$

$$C_{5} = \int_{0}^{M} \int_{1}^{2} (n) dn - nopo$$

$$= \int_{0}^{2} (25 - 3n) dn - 52$$

$$= \left[25x - \frac{3x^{2}}{2} \right] + -52$$

$$= \left[100 - \frac{24}{2} \right] - 52$$

$$= \frac{7}{2} + \frac{7}{2} - 52$$

$$= \frac{7}{2} + \frac{7}{2} - 52$$

$$= \frac{7}{2} - \frac{7}{2} + \frac{7}{2} - \frac{7}{2} + \frac{7}{2} - \frac{7}{2} + \frac{7}{2} - \frac{7}{2}$$