

#11

Cross-sections \rightarrow Rectangles ($A=bh$)

$$b = -3x^2 + 3 = -3(x^2 - 1)$$

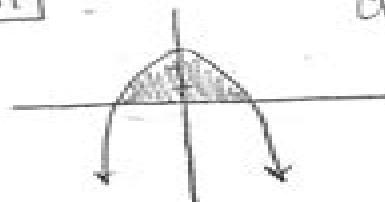
$$h = \frac{1}{2}(-3x^2 + 3) = -\frac{3}{2}(x^2 - 1)$$

$$A(x) = -3(x^2 - 1) \left(-\frac{3}{2}\right)(x^2 - 1)$$

$$= \frac{9}{2}(x^4 - 2x^2 + 1)$$

$$V = \int_{-1}^1 \frac{9}{2}(x^4 - 2x^2 + 1) dx = \frac{9}{2} \int_{-1}^1 (x^4 - 2x^2 + 1) dx$$

$$= \frac{9}{2} \left[\frac{x^5}{5} - \frac{2x^3}{3} + x \right]_{-1}^1 = \frac{9}{2} \left[\left(\frac{1}{5} - \frac{2}{3} + 1\right) - \left(-\frac{1}{5} + \frac{2}{3} - 1\right) \right] = \frac{9}{2} \left(\frac{16}{5}\right) = \frac{72}{5}$$



Calculator FR:

a) Rate = Derivative = slope!!

$$P'(t) = \frac{P(8) - P(6)}{8 - 6} = \frac{402 - 210}{2} = 95.5 = \boxed{96 \text{ people per hour}}$$

$$\Rightarrow \frac{1}{8} \int_0^8 P(t) dt = \frac{1}{8} \left[\frac{1}{2}(0 + 94) + \frac{3}{2}(94 + 160) + \frac{3}{2}(160 + 210) + \frac{3}{2}(210 + 402) \right]$$

$$= \frac{1}{8} (1468) = \boxed{183.5}$$

Explanation: There was an average of 183.5 people in line each hr.

$$\Rightarrow P(12) = P(8) - \int_8^{12} S(t) dt = 402 - \int_8^{12} (t^3 - 36t^2 + 420t - 1568) dt$$

$$= 402 - 96 = \boxed{306 \text{ people still in line}}$$

\(\Rightarrow\) ("You need to graph $S(t)$ & find the max")

People were being let into the store most quickly at $t=10$ because that is when there is a maximum on the graph of $S(t)$.
 \therefore the rate would be the highest at that time.

Previous Material

#12) $\frac{f(b) - f(a)}{b - a} = f'(x)$

$$b = 6x^2$$

$$x^2 = 1 \quad \boxed{x = \pm 1}$$

#14) $y' = 1 - \sec^2 x \Big|_{x=\pi/4} = 1 - \sec^2(\pi/4) = 1 - 2 = -1$

$$y(\pi/4) = \frac{\pi}{4} - \tan(\pi/4) = \frac{\pi}{4} - 1 = \frac{\pi}{4} - 1$$

$$y - \left(\frac{\pi}{4} - 1\right) = -1(x - \pi/4)$$

$$\text{or } y = -x + \frac{\pi}{2} - 1$$

#15) $\text{EOP} = 0 \rightarrow \text{BOT} = \text{NEATS D/C}$

$$\boxed{\frac{1}{2}}$$

#16) $\boxed{0}$

#13) $\frac{f(b) - f(a)}{b - a} = \frac{\int_a^b f'(x) dx}{b - a}$

$$= \frac{\int_0^\pi \sin x dx}{\pi - 0} = \frac{-\cos \pi - (-\cos 0)}{\pi} = \frac{2}{\pi}$$

#17) $\boxed{\frac{14}{(4x+2)^2}}$

Low to High

#18) $\frac{2(x^2+1)^2 + 6x^2(2x+3)(x^2+1)}{1^2(\text{Deriv } 2^m) + 2^m(\text{Deriv } 1^m)}$

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JS Bruner



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