Peview Totz

I the region bounded by y=x and y=2x-x in the first quadrant is rotated (a) around the x-axis. Find Volume

(b) around the y-axis. Find Volune

?. Find volume of solid if the region bounded by $y = x^2 + 1$ and $y = 9 - x^2$ is solated around y = -1

3. Final Volume if region bounded by $y=x^2$, y=0, x=1 rotated around x=2

4. Find volume of zegion bounded by y = 510x, y = 0000x, of y = -1

5, Find volve if eap bound by $x=y^2$, $x=1-y^2$ azound x=3

6. Find area of surface obtained if Y= VIFYX, 15x55 rotated areound X-ax

7, Find area: $y = \frac{x^3}{6} + \frac{1}{2x} > \frac{1}{2} \leq x \leq 1$

8. Find azea! x= 1+zyz, ky12, azovul x-axis

9. Find suzface area;
$$x = \sqrt{a^2 - y^2}$$
, $0 \le y \le \frac{\alpha}{2}$

Determine y sequences converge enot
$$a_n = \frac{5}{7} \frac{n+3}{n-1}$$

$$16. \quad a_n = \frac{5}{7} \frac{n+3}{n-1}$$

17.
$$a_n = n \sin\left(\frac{1}{n}\right)$$

18.
$$Q_{n} = \sqrt{\frac{5n+2}{3n+4}}$$

19.
$$q_n = \frac{\sin n}{3^n}$$

$$20 \quad a_n = \ln(n+1) - \ln(n)$$

Determine of series coorv. or not
$$21.$$
 $\int_{n=1}^{\infty} \frac{f}{f^n}$

$$27.$$
 $\frac{0}{100}$ $\frac{1}{(5)^n}$

$$23.$$
 $\underset{n=1}{\overset{\infty}{\sum}} e_n \left(\frac{n+1}{3n+1} \right)$

$$\frac{25}{n^3} = \frac{1}{n^3} = n$$

$$\frac{26.}{n} = \frac{n}{n^2 + 1}$$

27.
$$\leq \frac{1}{n + n n}$$

$$28. \frac{9}{100} \frac{n^2}{n^3+1}$$

$$29, \sum_{n=1}^{\infty} n^{3} e^{-n^{3}}$$

30.
$$\frac{8}{50+1}$$