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

$$x = 2 \cdot \left(-\frac{1}{2}\right) = -1$$

$$(x-1)^2 + y^2 = 1$$

(3)
$$Y = e^{-O/4}$$
, $\pi/2 \le 0 \le \pi$
 $S(\alpha) = e^{-O/4}$, $\pi/2 \le 0 \le \pi$
 $S(\alpha) = e^{-O/4}$, $A = \frac{1}{2} \int_{\frac{\pi}{2}}^{\pi} (-\rho/4)^2 d\rho = \frac{1}{2} \int_{\frac{\pi}{2}}^{\pi} e^{-O/2} d\rho$
 $S(\alpha) = e^{-O/4}$, $A = \frac{1}{2} \int_{\frac{\pi}{2}}^{\pi} (-\rho/4)^2 d\rho = \frac{1}{2} \int_{\frac{\pi}{2}}^{\pi} e^{-O/2} d\rho$
 $S(\alpha) = e^{-O/4}$, $S(\alpha) = e$

Sin 9 = 11

si(=)===

$$49 a_{N} = 3^{N-2}$$

$$\frac{a \sim = 3^{N} + 3^{2}}{5 N} = 9 \left(\frac{3}{5}\right)^{N}$$

Converge

(5) 10-2+0.4-0.8+...
$$\sum_{N=0}^{\infty} |0(-\frac{1}{5})^{N} - |-\frac{1}{5}| = \frac{1}{5} < 1 \quad \text{Converge}$$

0<글<1

$$5 = \frac{10}{1 - (-\frac{1}{5})} = \frac{10}{1 + \frac{1}{5}} = \frac{10}{5} = 10 \cdot \frac{5}{5} = \frac{50}{6} = \boxed{\frac{25}{3}}$$

(a) =
$$\frac{3}{1-z_{x}}$$

 $|u| < 1 = \frac{3}{1-u} = \sum_{N=0}^{\infty} u^{N}$
 $|(x)| = -3 \cdot \frac{1}{1-z_{x}}$
 $|(x)| = -3 \cdot \frac{1}{1-z_{x}}$

$$\frac{|z|^{2}}{|z|^{2}} = \frac{|z|}{|z|^{2}} = \frac{|z|}$$

$$|u| < 1 = \frac{1}{1 - u} \sum_{N=0}^{\infty} u^{N}$$

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$$\frac{8}{8} = \frac{1}{1 \times 14} \qquad N \ge 1$$

$$\frac{1}{1 \times 14} \qquad N \ge 1$$

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$$\frac{1}{1 \times 14} \qquad \frac{1}{1 \times$$

(a)
$$= (-1)^{N+3} \times (2N+1)!$$

 $N=0$ $(2N+1)!$
 $(-1)^{N+3} = (-1)^{N} \cdot (-1)^{3} = -(-1)^{N}$
 $= (-1)^{N+3} \times (-1)^{N} \times (-1)^{2} = -(-1)^{N}$
 $= (-1)^{N} \times (-1)^$