(1) a) arety 
$$x = \sum_{k=0}^{\infty} a_k x^k = a_k \cdot x - \frac{x}{3} + \frac{x}{5} - \dots = \sum_{k=0}^{\infty} (-1)^{\frac{2k+1}{2k+1}} + a_k$$

(1) a) arety  $x = \sum_{k=0}^{\infty} k \cdot a_k \cdot x^{k+1}$ 

(2) A arety  $x = \sum_{k=0}^{\infty} k \cdot a_k \cdot x^{k+1}$ 

(3) arety  $x = \sum_{k=0}^{\infty} (-1)^{\frac{2k+1}{k}} \cdot a_k$ 

(4) areto  $x = x^{k+2} \cdot (-1)^{\frac{2k+1}{k}} \cdot a_k$ 

(5) areto  $x = x^{k+2} \cdot (-1)^{\frac{2k+1}{k}} \cdot a_k$ 

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(3) 
$$\ln(4+3\times-x^2) = \ln((4-x)(y+1)) = \ln(4-x) + \ln(1+x) =$$
  
=  $\ln 4 + \ln(1-\frac{x}{4}) + \ln(1+x)$ 

(4)  $\sin^4 x = \left(1 - \cos^2 2x\right)^2 = \frac{1}{4} - \cos^2 2x + \cos^2 2x$