6230300940

6250500940

1avn 21

ตัวอย่าง 
$$6.4$$
 จงหาผลเฉลยใกล้จุดสามัญ  $x=1$  ของสมการ

$$y'' + (x-1)^2 y' - 4(x-1)y = 0$$

$$\sum_{n=0}^{\infty} a_{n}(x-1)^{n} = 0$$

$$\sum_{n=0}^{\infty} a_{n}(x-1)^{n} = 0$$

$$\sum_{n=0}^{\infty} a_{n}(x)^{n}$$

$$y' + \frac{1}{2} + \frac{1}{2} = \sum_{n=0}^{\infty} a_{n}(x)^{n}$$

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$$\sum_{n=0}^{\infty} a_{n}(x)^{n} + \frac{1}{2} = \sum_{n=0}^{\infty} a_{n}(x)^{n} + \frac{1}{2} = 0$$

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$$\sum_{n=0}$$

$$2\alpha_{2}v^{0} + \sum_{n=3}^{\infty} v^{h-2} \left[ n C_{n-1} \right] \alpha_{n} + (n-7) \alpha_{n-3} = 0$$

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## ยุรายารายกราย

$$20_{2} = 0$$

$$0_{2} = 0$$

$$0_{3} = 0$$

$$0_{4} = \frac{-(n-7) \alpha_{n-3}}{n(n-1)}$$

$$0_{4} = \frac{-(-7) \alpha_{n-3}}{n(n-1)}$$

$$0_{5} = \frac{-(-7) \alpha_{2}}{5(4)} = 0$$

$$0_{6} = \frac{-(-1) \alpha_{3}}{6(6)}$$

$$0_{7} = \frac{0 \alpha_{4}}{7(6)}$$

$$0_{8} = 0$$

$$0_{9} = 0$$

$$0_{9} = 0$$

$$0_{9} = 0$$

$$\alpha_{3k} = \frac{-(3k-7)}{3k(3k+1)}$$

$$y = \sum_{n=0}^{\infty} \alpha_{n} (v)^{n}$$

$$= \alpha_{0} + \alpha_{1} v + \alpha_{2} v^{2} + \dots - y$$

$$= \alpha_{0} x + \sum_{k=1}^{\infty} \alpha_{3k} v$$

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$$= \alpha_{0} x + \alpha_{1} v + \alpha_{2} v^{2} + \alpha_{3} v$$

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$$= \alpha_{0} x + \alpha_{1} v + \alpha_{2} v + \alpha_{3} v + \alpha_{3} v + \alpha_{3} v + \alpha_{3} v + \alpha_{5} v + \alpha_{5} v$$

$$y = a_0 \frac{-(3k-7)}{3k(3k+1)} V$$

$$y = x - 1$$
;
$$y = a_0 \frac{-(3k-7)}{3k(3k+1)} (x-1)$$