

$$f(x)=ax^4+bx^3+cx^2+dx+e$$

$$f'(x)=4ax^3+3bx^2+2cx+d$$

$$f''(x)=12ax^2+6bx+2c$$

$$f(-4)=6$$

$$f'(-4)=0$$

$$f(4)=2$$

$$f''(4)=0$$

$$f'(4)=0$$