

3. c.i.

$$f(x) = \ln(1 + 2\sin x)$$

$$f'(x) = \frac{2\cos x}{1+2\sin x}$$

$$f''(x) = \frac{-2\sin x(1+2\sin x) - (2\cos x)(2\cos x)}{(1+2\sin x)^2}$$

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

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

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

$$f'''(x) = \left[\frac{-2\cos x(1+2\sin x) - (-2\sin x - 4)(2\cos x)(2)}{(1+2\sin x)^3} \right]$$

$$f(0) = 0, \quad f'(0) = 2, \quad f''(0) = -4, \quad f'''(0) = \frac{-2+16}{1} = 14$$

$$\therefore f(x) = 0 + 2x - 2x^2 + \frac{7}{3}x^3 + \dots \approx 2x - 2x^2 + \frac{7}{3}x^3 //$$

$$(ii) \quad e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$$

$$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \dots$$

$$e^{ax} \sin bx = \left[1 + ax + \frac{a^2 x^2}{2!} + \dots \right] [bx + \dots]$$

$$= bx + abx^2 + \dots$$

$$\Rightarrow \quad a=2, \quad b=-1 //$$

$$e^{-2x} \sin 2x = \left[1 - 2x + \frac{2^2 x^2}{2!} - \frac{2^3 x^3}{3!} + \dots \right] \left[2x - \frac{8x^3}{3!} + \dots \right]$$

$$= -\frac{4}{3}x^3 + x^3 + \dots$$

$$= -\frac{1}{3}x^3 + \dots$$

$$\therefore \text{Third non-zero term} = -\frac{1}{3}x^3 //$$

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