

2021학년도 1학기 미분적분학 (I) 중간시험

1. $y = \sqrt{x} e^{x^2 - 1} \ln x + 1$ 의 그래프의 x절편이 1인 점에서의 접선의 방정식을 구하시오.

$$\text{soo } y' = \frac{1}{1\sqrt{x}} e^{x^2 - 1} \ln x + 1)^{\frac{1}{2}} + \frac{\sqrt{x}(2x-1)}{2} e^{x^2 - 1} \ln x + 1)^{\frac{1}{2}} + \frac{2\sqrt{x}}{2} e^{x^2 - 1} \ln x + 1)^{-\frac{1}{2}}$$

이므로 $x=1$ 을 대입하면 $y'=2^{\frac{1}{2}}$ 이므로 접선의 방정식은 $y=2^{\frac{1}{2}}x$

2. $f(x) = \arcsin(\tanh x)$ 일때 $f'(2\ln 3)$ 를 기약분수로 구하시오.

$$\text{soo } f'(x) = \frac{\sec^2(\arcsin x)}{1 + \tanh^2 x} = \frac{1}{\cosh^2 x + \sinh^2 x} \text{ 이고 } \cosh(2\ln 3) = \frac{e^{2\ln 3} + e^{-2\ln 3}}{2} = \frac{5}{2}, \sinh(2\ln 3) = \frac{e^{2\ln 3} - e^{-2\ln 3}}{2} = \frac{4}{3}$$

이므로 $f'(2\ln 3) = \frac{5}{41}$

3. $y = \frac{e^x}{1 - e^x}$ 의 수직접근선과 수평접근선을 구하시오.

soo $\lim_{x \rightarrow -\infty} \frac{e^x}{1 - e^x} = 0$ 이므로 $x = 0$ 은 수평접근선이고 $\lim_{x \rightarrow -\infty} \frac{e^x}{1 - e^x} = -1, \lim_{x \rightarrow \infty} \frac{e^x}{1 - e^x} = 0$ 이므로 $y = -1, y = 0$ 이 수직접근선이다.

4. 원 $(0,4)$ 에서 타원 $x^2 + 4y^2 = 50$ 에 접선을 그린다. 이때의 접점을 모두 구하시오.

soo 접선의 타원과타 교점 즉 접점의 좌표를 (a,b) 라 하면 $a^2 + 4b^2 = 50$ 을 만족한다. (a,b) 에서의 접선의 기울기는 $2a + 8b = 0$ 을 만족하므로 (a,b) 에서의 접선의 방정식은 $y - b = -\frac{a}{4b}(x - a)$ 이다.

접점이 $(0,4)$ 를 지나므로 $4 - b = \frac{a}{4b}$ 을 만족한다. 두 방정식을 연립하면 $a = \frac{8}{3}$ 이므로 접점의 좌표는 $(\frac{8}{3}, \sqrt{7}/2, 8/3)$ 이다.

5. $x_1 = 4$ 로 시작하여 $\sqrt{60}$ 의 근사값을 뉴턴방법을 한번 적용하여 기약분수로 구하시오.

soo $\sqrt{60}$ 은 $x^2 - 60 = 0$ 의 근이므로 $f(x) = x^2 - 60$ 의 근사해를 구하면 된다.

$$x_1 = 4 \text{ 일 때 } x_2 = x_1 - \frac{f(x_1)}{f'(x_1)} = 4 - \frac{4^2 - 60}{2(4)} = \frac{47}{12}$$

6. 오레가 안을 따라 $30\text{m}^2/\text{min}$ 의 비율로 증가하고 있다. 증가한 오레가 만드는 오레다리는 지름과 높이가 같은 원뿔형이다 한다. 오레다리의 높이가 15cm일 때 높이의 증가율을 구하시오.

$$\text{soo } V = \frac{\pi}{12} h^3, \frac{dV}{dt} = \frac{\pi}{4} h^2 \frac{dh}{dt} = 3 \text{ 이므로 } h \text{ 가 } 15 \text{ 일때 } \frac{dh}{dt} = \frac{12}{5\pi}$$

7. 지름이 50cm인 반구형 통에 0.04cm의 두께로 제인트를 설치하는데 필요한 제인트의 양을 이분율 이용하여 구하시오.

$$\text{soo } V = \frac{\pi}{8} r^3, dV = 3\pi r^2 dr, r = 25, dr = 0.0034 \text{ 일때 } dV = \frac{\pi}{8}$$

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