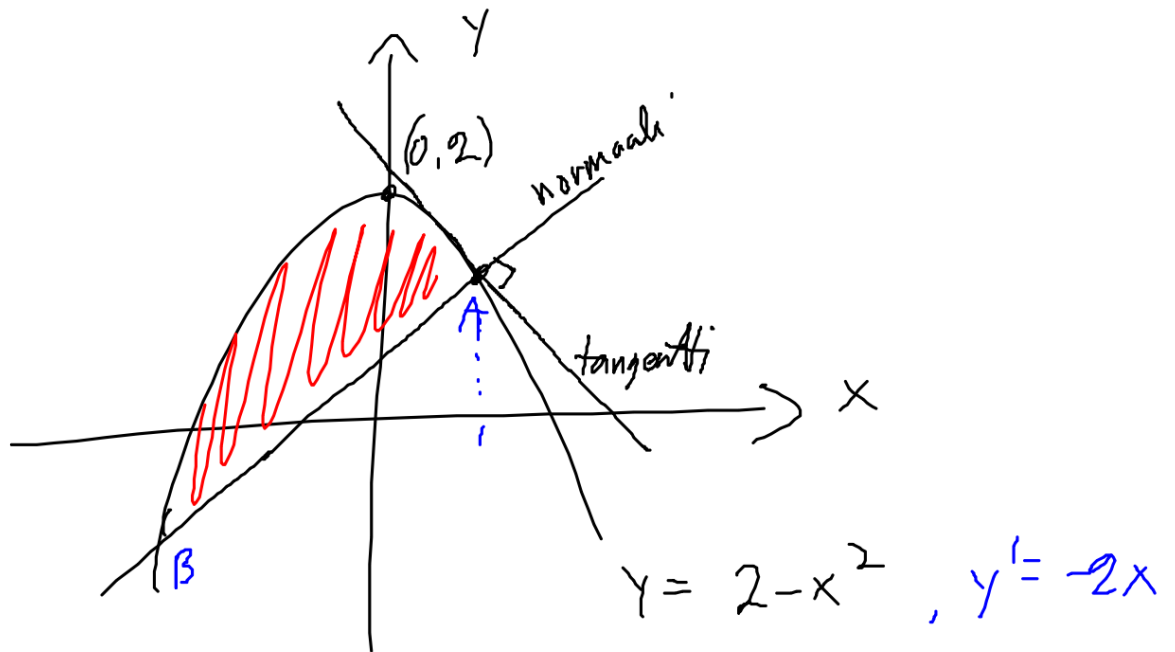


4/5 3.



1) $A: (1, 2 - 1^2) = (1, 1)$

2) Norm. yhtä: $y - y_0 = k(x - x_0)$ $k = -\frac{1}{f'(x_0)} = -\frac{1}{-2 \cdot 1} = \frac{1}{2}$

3) B: $\begin{cases} y - 1 = \frac{1}{2}(x - 1) \rightarrow y = \frac{1}{2}x + \frac{1}{2} \\ y = 2 - x^2 \end{cases}$ $\dots$ $x = 1$ tai $x = -\frac{3}{2}$

$$4) A = \int_{\text{ylampi}}^1 \left[(2 - x^2) - \left(\frac{1}{2}x - \frac{1}{2} \right) \right] dx = \dots$$

$$- \frac{3}{2}$$

445.

leikk. piste

$$\sin 2x = \cos x$$

$$2 \sin x \cos x - \cos x = 0$$

$$\cos x (2 \sin x - 1) = 0$$

$$\cos x = 0 \quad \text{tai} \quad \sin x = \frac{1}{2}$$

$$x = \pm \frac{\pi}{2} + n2\pi \quad x = \frac{\pi}{6} + n2\pi \quad \text{tai} \quad \frac{5\pi}{6} + n2\pi$$

