```
me 10 P 100
         a) f(x) = x
         x = y'(x) = 2x 2x = 1 \implies x = 1 y(x) = 1
            dus in P(1, 1)
        * 2x = 0 ( ) x = 0 => 1(0) = 0
             aus in P(0,0)
        olus in P(-1,1)
                          1'(x) = 1
        b) f(x) = Vx1
           \frac{1}{2\sqrt{x^1}} = 1 \Leftrightarrow 2\sqrt{x^1} = 1 \Leftrightarrow \sqrt{x^1} = 1
                          (=) X = 1
                       别(女) = Vま! = 主
             dus in P (1, 1)
           2 /x1 = 0 kan met!
           21x7 = -2 11 11
        g(x) = sux \qquad f'(x) = cosx
net
        * \cos x = 1 \iff x = k \in \mathbb{T} \Rightarrow f(x) = 0
           P(ket, o) kell
        * \cos x = 0 \Leftrightarrow \int x = \frac{\pi}{2} + k2\pi \Rightarrow \int (x) = 1
1 \quad x = -\pi + k2\pi \Rightarrow \int (x) = -1
           dus in P(\mathbb{E} + kRT, 1) en P'(-\mathbb{E} + kRT, -1)
        * (05 X = -1 (=) X = / cos tss -1 en 1
```