

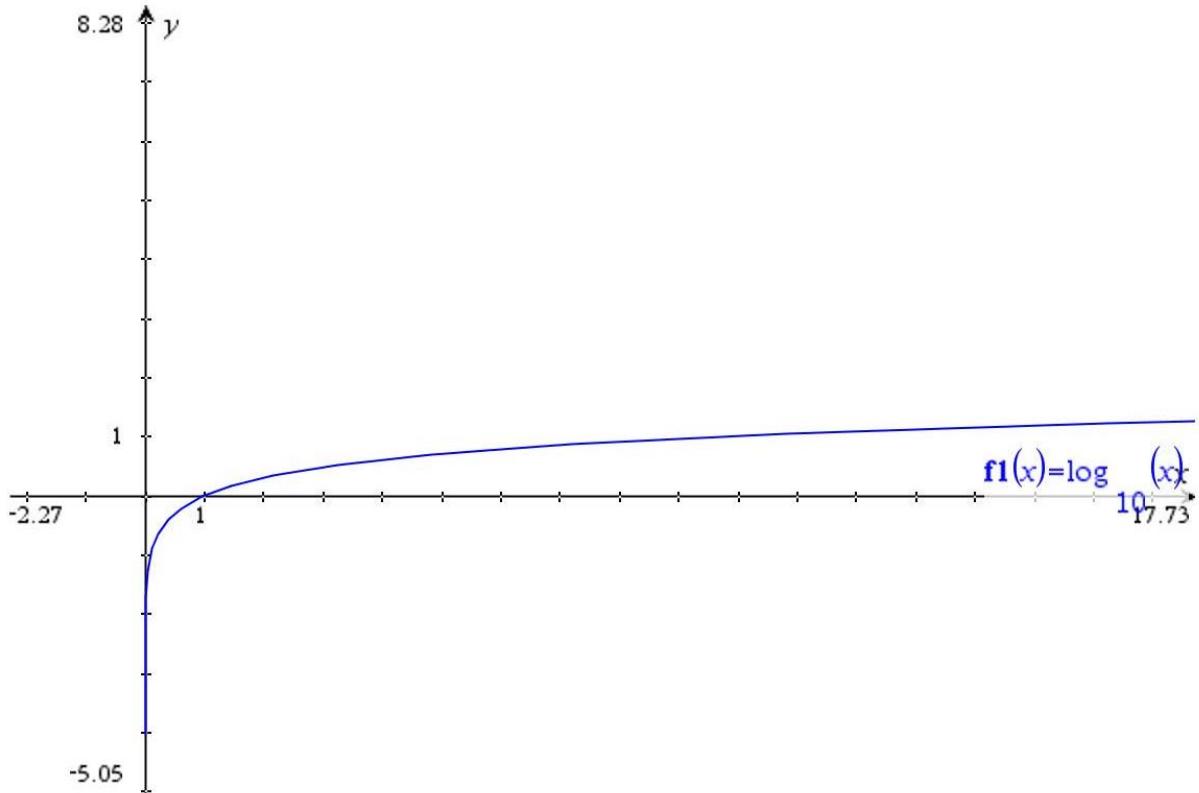
Facit til Kernesof Mat 1 – side 226

Opgave 1121

- a) A(0,1), B(1,1000000), C(3, 100000), D(5,10) og E(6,1000000)

Opgave 1122

- a) $f(x) := \log(x)$
b) 10000
c)



Opgave 1123

- a) --
b) $x = 0,000998$
c) $(9,98 \cdot 10^{-4}, 3)$

Opgave 1124

- a) $3^x = 7, \log(3^x) = \log(7), x \cdot \log(3) = \log(7), \left(\frac{x \cdot \log(3)}{\log(3)}\right) = \frac{\log(7)}{\log(3)}, x = 1,77$
b) $10^x = 0,01, \log(10^x) = \log(0,01), x \cdot \log(10) = \log(0,01), x = \frac{\log(0,01)}{\log(10)} = -2$
c) $2 \cdot 3^x = 54, 3^x = \frac{54}{2} = 27, \log(3^x) = \log(27), x \cdot \log(3) = \log(27), x = \frac{\log(27)}{\log(3)} = 3,03$
d) $3 \cdot 5^x = 75, 5^x = \frac{75}{3} = 25, \log(5^x) = \log(25), x = \frac{\log(25)}{\log(5)}, x = 2$

Opgave 1125

- a) 0,1 , 0,01 og 0,001
- b) 0, 1 og 2
- c) 0, 1 , 2 og 3

Opgave 1126

- a) $x = 2$
- b) $x = 2,53$

Opgave 1127

- a) $x = 2,32$
- b) $x = 1,35$

Opgave 1128

- a) 2,3
- b) $\ln(10)$