12.1 Funksies

12.1 Inverse van eksponensiaal en logaritmiese funksies

1. As $f(x) = -4^x$, gee $g(x)$, die inverse van $f(x)$ en skets f en g op dieselfde assestelsel.
2. As $f(x) = -(\frac{1}{5})^x$, gee $g(x)$ die inverse van $f(x)$ en skets f en g op dieselfde assestelsel.
3. As $f(x) = -\log_4 x$, gee $g(x)$ die inverse van $f(x)$ en skets f en g op dieselfde assestelsel.
4. As $f(x) = 3^x$, gee $g(x)$ die inverse van $f(x)$ en skets f en g op dieselfde assestelsel.

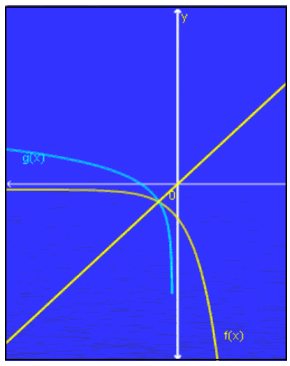
MEMO

Inverse van eksponensiaal en logaritmiese funksies [6.7.6.1; 6.7.6.2; 6.7.7]

1. $f(x) = -4^x$

$x = -4^y$

$y = \log_4(-x)$

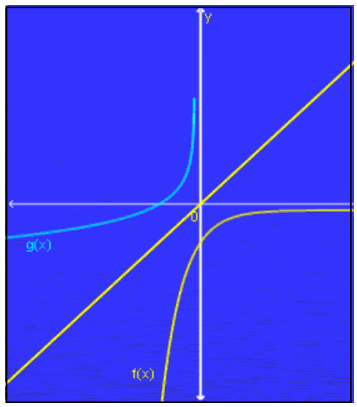


2. $f(x) = -(\frac{1}{5})^x$

$x = -(\frac{1}{5})^y$

$y = \log_{\frac{1}{5}}(-x)$

$y = -\log_5(-x)$



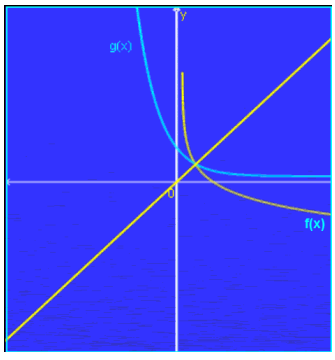
3. $f(x) = -\log_4 x$

$x = -\log_4 y$

$-x = \log_4 y$

$y = 4^{-x}$

$y = (\frac{1}{4})^x$



4. $f(x) = 3^x$

$x = 3^y$

$y = \log_3 x$