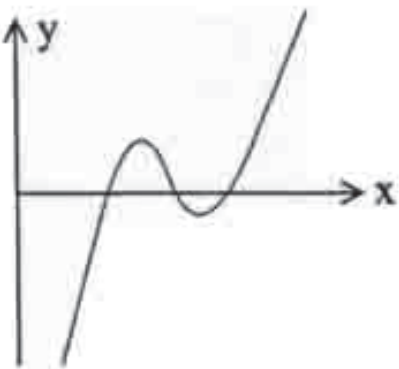1. (8 pts.) The figures below show the graphs of four functions for positive values of x. For each of the figures, circle the function which best respresents the graph in the figure. Assume that a, b, c, $k > 0$.
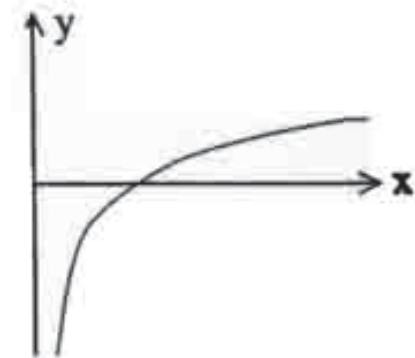

$y = -k(x+a)(x+b)(x+c)$

$y = k(x+a)(x+b)(x+c)$
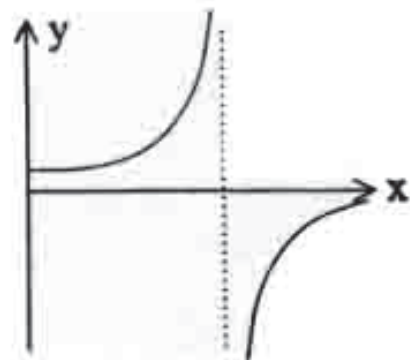
$\boxed{y = k(x-a)(x-b)(x-c)}$

$y = -k(x-a)(x-b)(x-c)$

$y = -ab^x$

$y = \dfrac{-a}{x}$
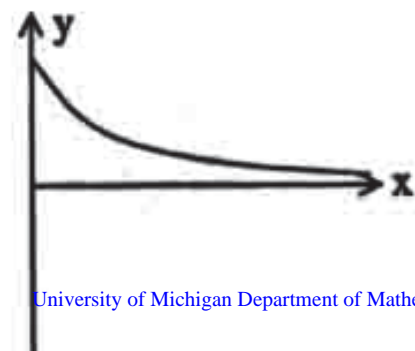
$\boxed{y = \ln(ax)}$

$y = \dfrac{-1}{e^x}$

$y = \dfrac{-a}{x+b}$

$y = \dfrac{a}{x-b}$

$y = \dfrac{1}{e^x}$

$\boxed{y = \dfrac{-a}{x-b}}$

$y = ab^x, \quad b > 1$

$\boxed{y = ab^x, \quad 0 < b < 1}$

$y = -\ln(x)$

$y = -e^x$