

Quiz 6

1. Find the linear approximation at $x = 4$ of $f(x) = \ln(x - 3)$.
2. Find the derivative of the following functions:
 - (a) $y = \log_3(2^x)$
 - (b) $y = \arctan(x^2)$
 - (c) $y = x^{2x}$