Practice worksheet | Logarithmic functions

Logarithmic graphs, domains and transformations

Name: _____ Date: _____

6 questions | 15 marks

1. State the domain and asymptote of $y = \log_2(x - 3)$. [2 marks]

2. Find the x-intercept of $y = \ln x - 2$. [2 marks]

3. Find the domain and y-intercept of $y = \ln(6 - 2x)$. [3 marks]

4. Describe the transformation from $y = \ln x$ to $y = -2\ln x + 3$. [2 marks]

5. Find the inverse of $f(x) = \ln(x + 2) - 1$ and its domain. [3 marks]

6. Sketch $y = \ln x$ and $y = \ln(2x)$ on the same axes using exact anchor points. State their vertical separation. [3 marks]