Spiral Review: 1-3 P1 (No Calculator) Algebra Logarithms

1. 14M.1.sl.TZ2.2
   Find the value of each of the following, giving your answer as an integer.

   (a) $\log_6 36$ [2 marks]

   (b) $\log_6 4 + \log_6 9$ [2 marks]

   (c) $\log_6 2 - \log_6 12$ [2 marks]

2. 16M.1.sl.TZ2.3
   Let $x = \ln 3$ and $x = \ln 5$. Write the following expressions in terms of x and y.

   (a) $\ln \frac{5}{3}$ [2 marks]

   (b) $\ln 45$ [4 marks]

3. 13M.1.sl.TZ2.3
   Let $\log_3 p = 6$ and $\log_3 q = 7$.

   (a) Find $\log_3 p^2$ [2 marks]

   (b) Find $\log_3 \frac{p}{q}$ [2 marks]

   (c) Find $\log_3(9p)$ [3 marks]