

## Pre-Calculus

## KEY

Rewrite a logarithm expression into condensed form.

1.  $\ln \frac{p^4 t^2}{q^3 u^5}$

2.  $\ln \frac{p^5 q}{t^3 u}$

3.  $\ln \frac{p^4 q}{t^2 u^3}$

4.  $\ln \frac{q^2 t^6}{p u^2}$

5.  $\ln \frac{q^4 t}{p^7 u}$

6.  $\ln \frac{q^4 t^3}{p^6 u^2}$

7.  $\ln \frac{t u^2}{p^2 q}$

8.  $\ln \frac{p^2 t^2 u^7}{q^6}$

9.  $\ln \frac{p^7 q^6 t}{u^5}$

10.  $\ln \frac{p^2 u^3}{q^5 t}$