

Question 9

2778

The function $y = \ln x$ is transformed by first being dilated vertically by a scale factor of 3 and then translated horizontally 4 units to the left.

Find the equation of the transformed function.

- a) $y = 3 \ln x^4$
- b) $y = 4 \ln x^3$
- c) $y = 3 \ln(x - 4)$
- d) $y = 3 \ln(x + 4)$