

Correct. Take the common logarithm of both sides:  $\log 10^{6x-3} = \log 1,000$

Because  $\log_b b^m = m$ , the equation simplifies to:  $6x - 3 = \log 1,000$

The value of  $\log 1,000$  is 3, so the equation becomes:  $6x - 3 = 3$

Solve the linear equation:  $6x = 6$ , so  $x = 1$