Curve Fitting an Exponential Function Notes

Important Information

To write an equation for an exponential function of the form $y = ab^x$ that passes through two given points you could…

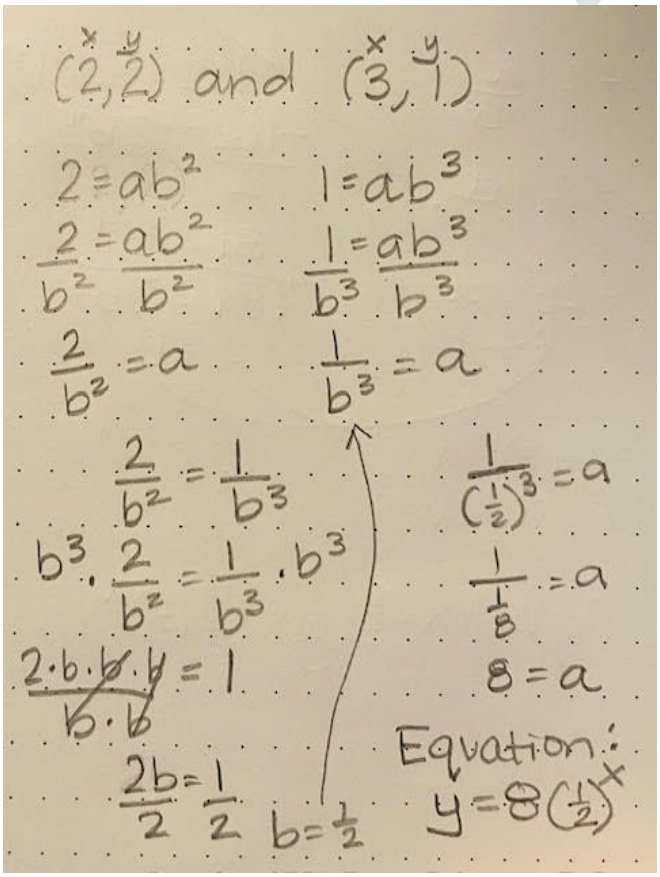
Use the Substitution Method:

- substitute both points into the equation $y = ab^x$, solve one of them for a and substitute what a= into the other equation.

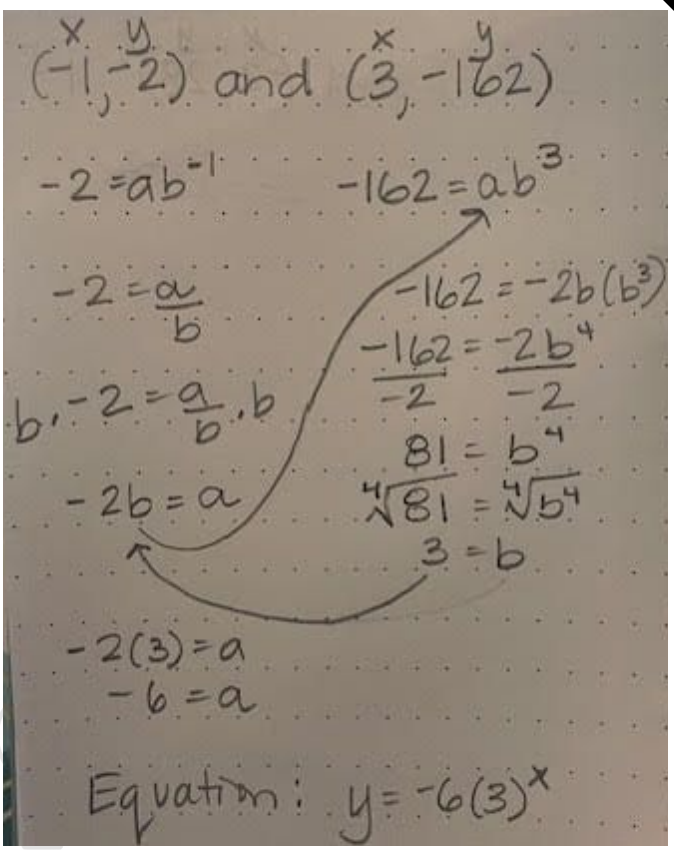
Use the Equal Values Method:

- substitute both points into the equation $y = ab^x$, solve both of the equations for a and then set the equations equal to each other to solve for b.

Equal Values Method



Substitution Method



Another Example:

Solve whichever way you want.

(2, 32) and (3 , 128)