

Extension: Writing Equations from data points.

Write an exponential equation in the form $y = ab^x$ that passes through the points (2, 4) and (3, 16).

- Write two equations in general form, one using Point 1 and the other using Point 2. *Solve for a*

- Set the equations equal to each other and solve for b .

- Substitute your b value back into one of the original equations to solve for a .

- Write your final equation using your values for a and b .

Your Turn 2: Write an exponential equation in the form $y = ab^x$ that passes through the points (4, 8) and (6, 32).

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