MEI *How to* Guides for GeoGebra

Creating a dynamic exponential curve in GeoGebra

Adding sliders for *k* and *a*, plotting the curve and adding a point on it

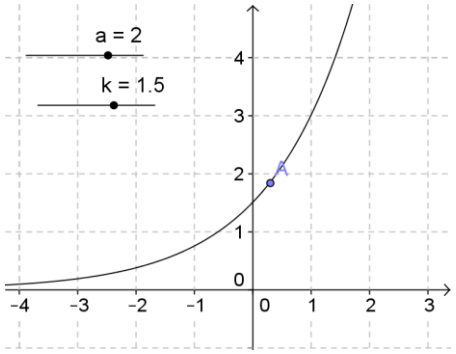
1 Add a slider (11th menu) named **a**.

2 Add a slider (11th menu) and rename it **k**.

3 In the input bar type **f(x)=k*a^x** and press enter.

4 Add a **Point**, A, (2nd menu) on the line (the cursor should change as you hover over the line).

5 In the input bar type **x_A=x(A)** and press enter.



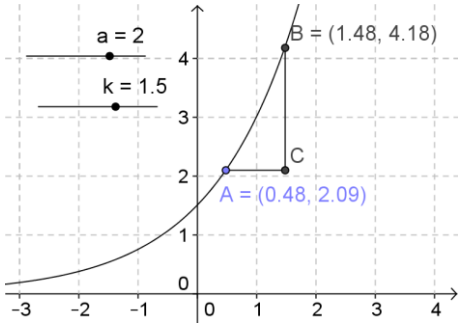
Adding a point on the curve one unit to the right and creating the line segments

6 In the input bar type **(x_A+1,f(x_A+1))** and press enter.

7 In the input bar type **(x(B),y(A))** and press enter.

8 Use **Segment** (3rd menu) to add segments AC and BC.

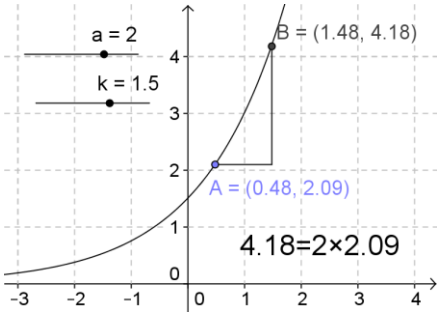
9 Toggle on the Graphics Style Bar. Select each of A and B and set the label style to **Name and Value**.



Adding the dynamic text

10 In the input bar type **y_A=y(A)** and press enter and **y_B=y(B)** and press enter.

11 Use **Insert Text** (10th menu) to add a text-box.
Enter **y_B=a×y_A**.
y_A, **y_b** and **a** should be selected from Objects.
× can be found in Symbols.



View on GeoGebraTube: http://tube.geogebra.org/material/show/id/223137