

Topics:

7.1 → Growth graphs

$$\hookrightarrow y = a \cdot b^{x-h} + k \quad b > 1$$

$$\hookrightarrow (0, 1) \quad (1, b) \quad \text{asym. @ } 0$$

$$\hookrightarrow \begin{array}{l} \text{growth model} \\ A = P(1+r)^t \end{array} \quad ; \quad \begin{array}{l} \text{compound int.} \\ A = P(1+\frac{r}{n})^{nt} \end{array}$$

7.2 → Decay graphs

$$\hookrightarrow \text{Same as growth but } 0 < b < 1$$

$$\hookrightarrow \text{can graph } (-1, \frac{1}{b})$$

$$\hookrightarrow \begin{array}{l} \text{Decay model} \\ A = P(1-r)^t \end{array}$$

7.3

$$\rightarrow e \approx 2.718...$$

$$\hookrightarrow \text{exp. props.}$$

$$\hookrightarrow \text{graphs (make a table)}$$

$$\hookrightarrow \text{continuous compound } A = Pe^{rt}$$