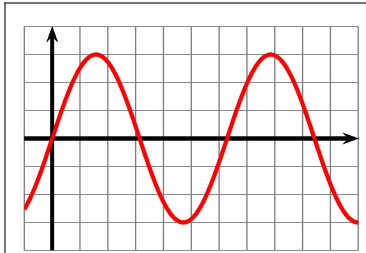


Exercise 1

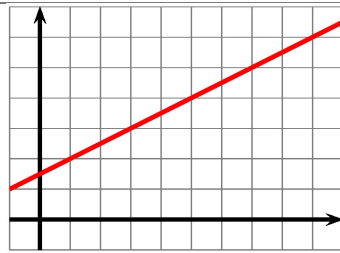
Calc. : ✗

5 marks

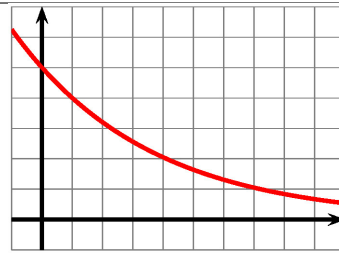
Voici trois expressions algébriques de fonctions réelles (avec a et b étant des nombres réels positifs) et les leurs graphiques :
 $f(x) = a \cdot b^x$ avec $b > 1$; $g(x) = a \cdot x + b$; $h(x) = a \cdot \sin(b \cdot x)$.



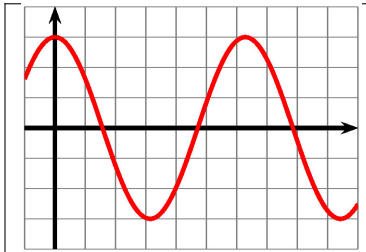
Graphe A



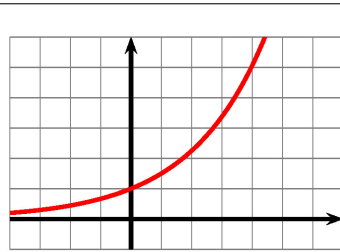
Graphe B



Graphe C



Graphe D



Graphe E

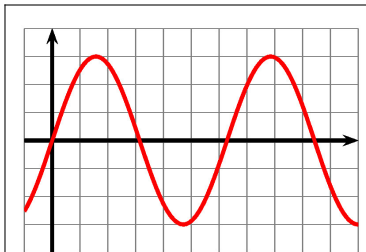
- Attribuer** chaque graphique (de A à E) à l'expression algébrique appropriée (de f à h).
- Pour les deux autres graphiques non attribués, **indiquez** leur modèle.

Exercise 2

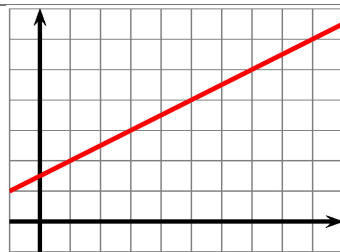
Calc. : ✗

5 marks

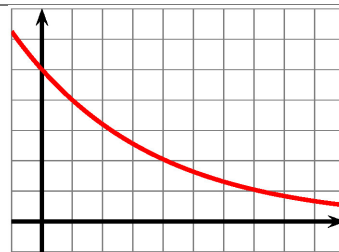
Im Folgenden werden drei Funktionsgleichungen (wobei a und b positive reelle Zahlen sind) und die Graphen von fünf reellen Funktionen dargestellt.
 $f(x) = a \cdot b^x$ mit $b > 1$; $g(x) = a \cdot x + b$; $h(x) = a \cdot \sin(b \cdot x)$.



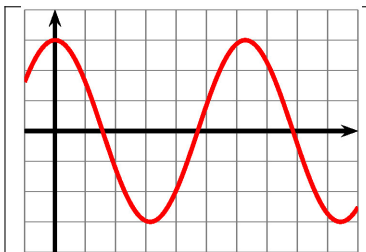
Graph A



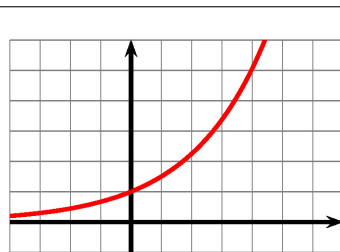
Graph B



Graph C



Graph D



Graph E

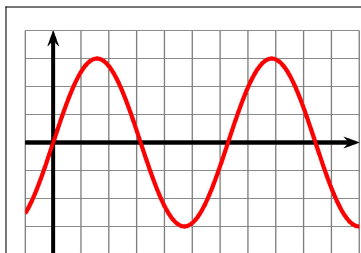
- Ordnen** Sie jeder der drei Funktionsgleichungen (von f bis h) den entsprechenden Graphen (von A bis E) zu.
- Geben** Sie für die beiden verbleibenden Funktionsgraphen **an**, welches Modell sie jeweils darstellen.

Exercise 3Calc. : **X**

In the following, three function equations (with a and b being positive real numbers) and the graphs of five real functions are shown.

5 marks

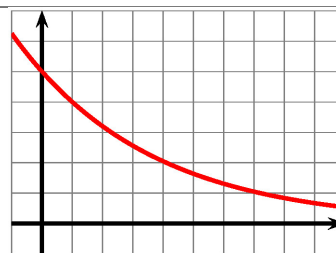
$$f(x) = a \cdot b^x \text{ with } b > 1 ; \quad g(x) = a \cdot x + b ; \quad h(x) = a \cdot \sin(b \cdot x).$$



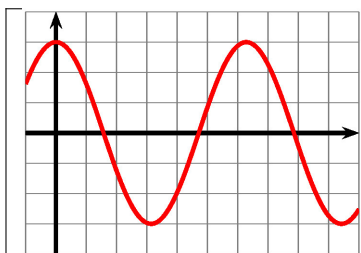
Graph A



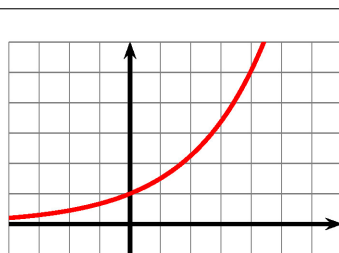
Graph B



Graph C



Graph D



Graph E

- a) **Assign** the appropriate graph (from A to E) to each of the three function equations (from f to h).
- b) For the two remaining function graphs, **state** which model each represents.