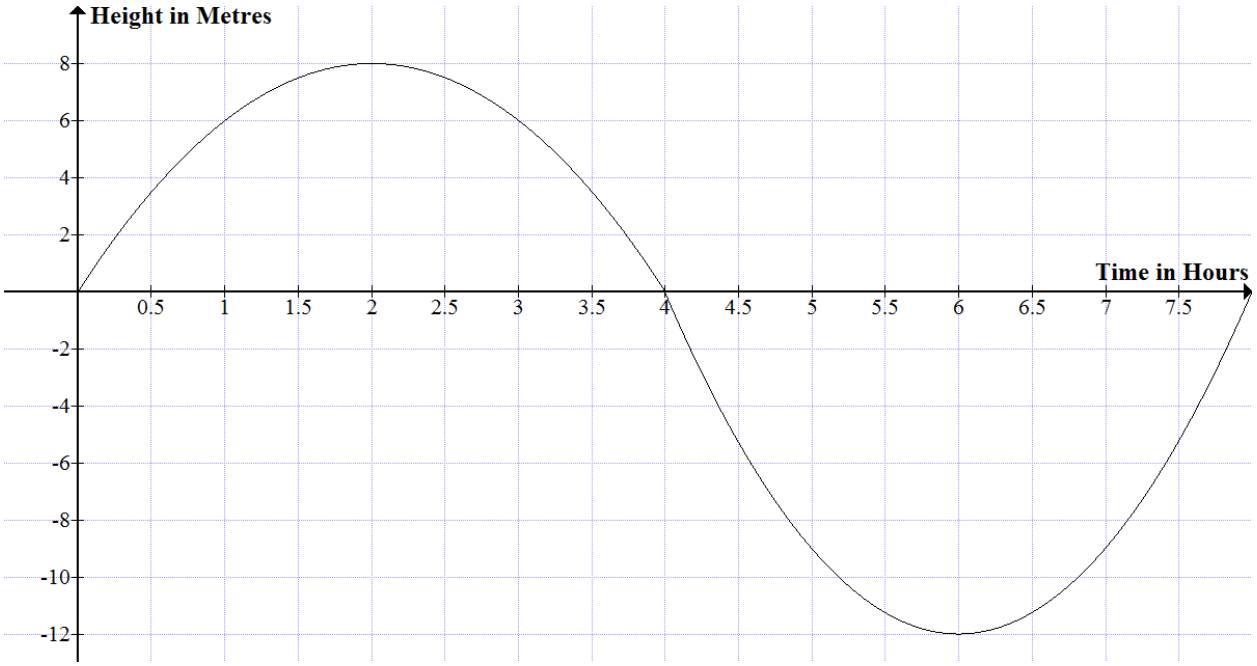
Math 4CST Properties of Functions. Name: _____

Domain, Range & Extrema

1. The height of a dolphin's dive is modelled by the function below.



How long did the dive last? _____

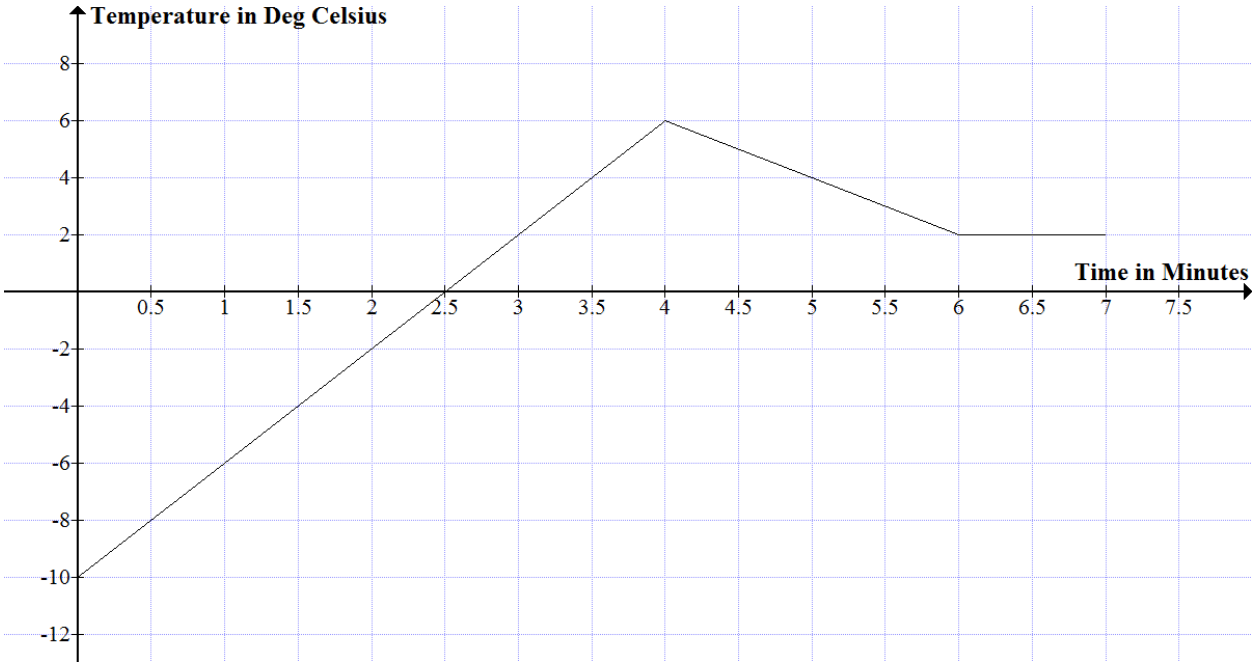
What is the domain of this function? _____

What is the minimum height of the dive? _____

What is the maximum height of the dive? _____

What is the range of this function? _____

2. The temperature of a substance during an experiment is recorded in the graph below.



How long did the experiment last? _____

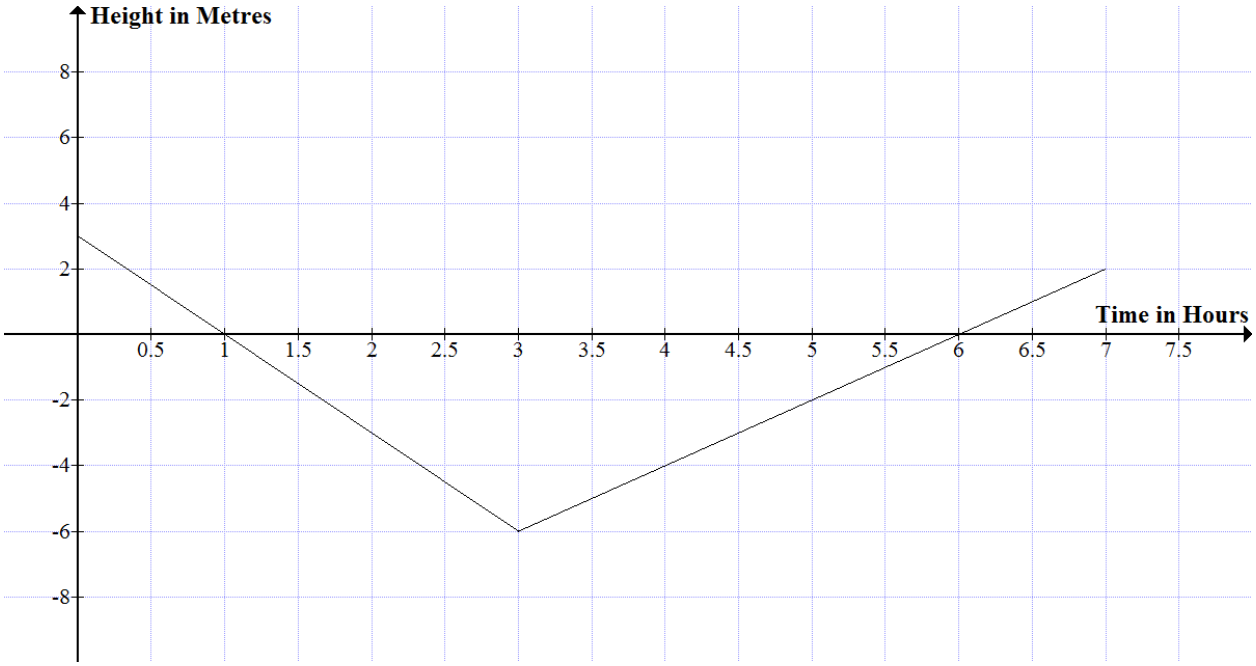
What is the domain of this function? _____

What was the minimum temperature recorded? _____

What was the maximum temperature recorded? _____

What is the range of this function? _____

3. The height of spelunkers as they explore caves is recorded in the graph below.



How long did the exploration last? _____

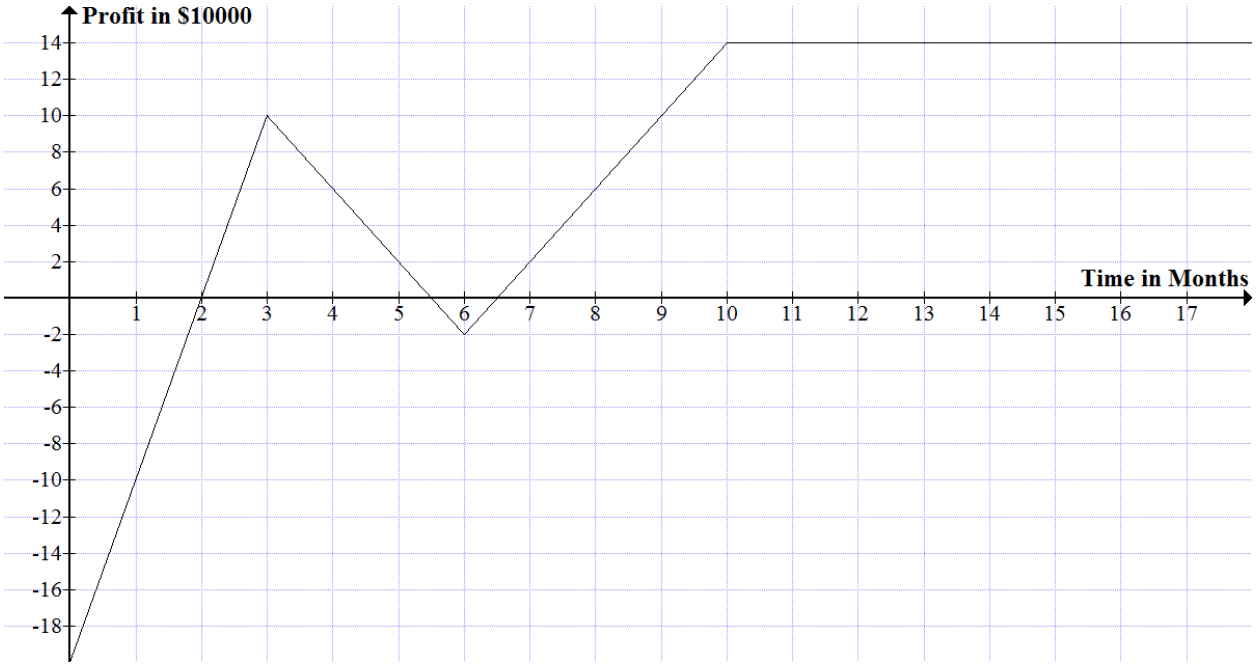
What is the domain of this function? _____

What is the minimum height that the spelunkers reached? _____

What is the maximum height that the spelunkers reached? _____

What is the range of this function? _____

4. The profit recorded by a new company is shown in the graph below.



How long has this company been in business? _____

What is the domain of this function? _____

What is the minimum profit? _____

Explain the implications of this? _____

What is the maximum profit? _____

What is the range of this function? _____