Question #74727, Math / Algebra

Condition

Scientists are studying the temperature on a distant planet. They find that the surface temperature at one location is 20 Celsius. They also find that the temperature decreases by 3 Celsius for each kilometer you go up from the surface.
Let represent the temperature (in Celsius), and let be the height above the surface (in kilometers).
Write an equation relating to , and then graph your equation using the axes below.

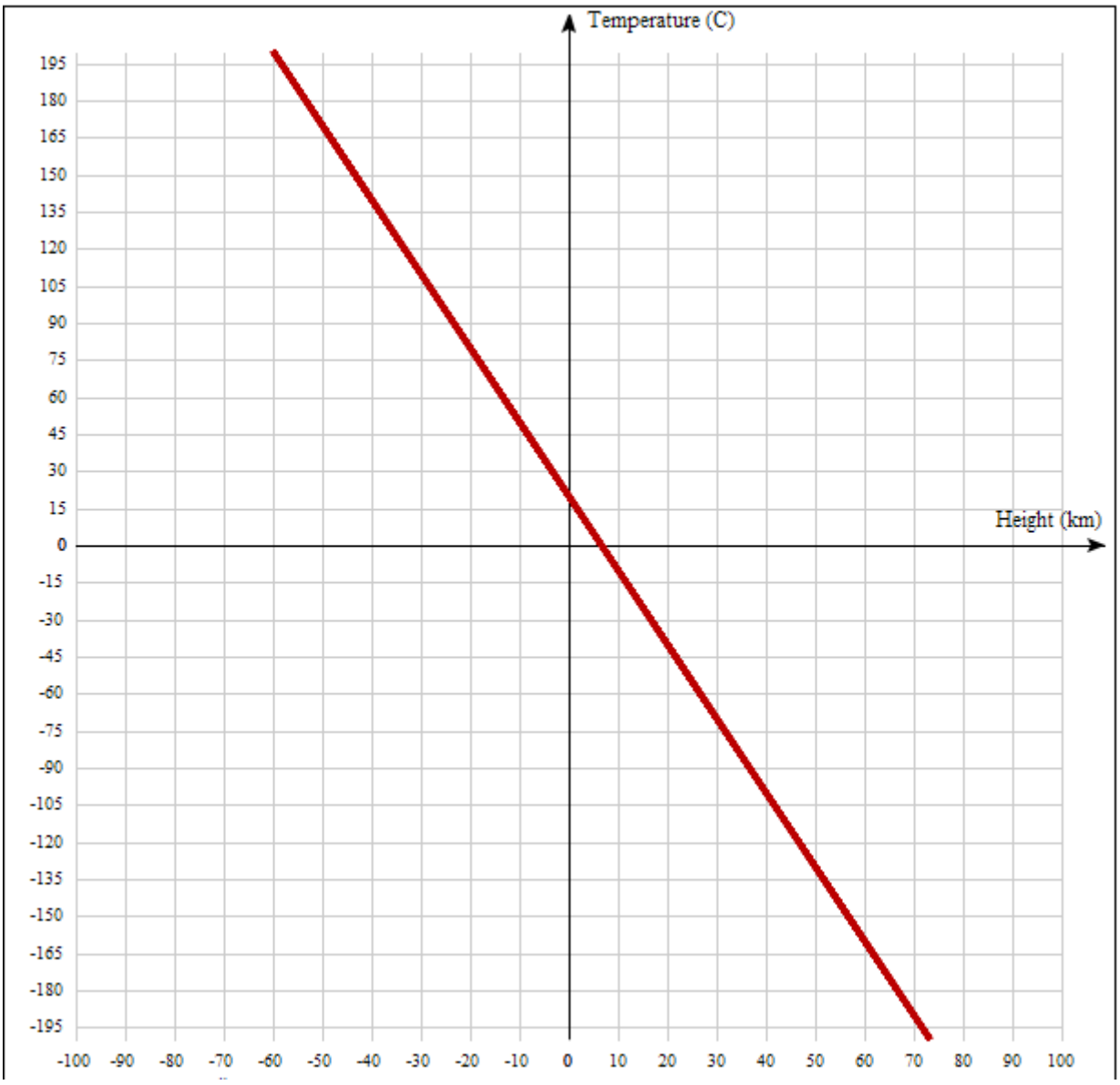
Solution

An equation is

$$Y = 20 - X * 3$$

Where X- the height above the surface. And Y is the temperature above the surface on X kilometers.

Graph



There is point table:

x	y
-100	320
-90	290
-80	260
-70	230
-60	200
-50	170
-40	140
-30	110
-20	80
-10	50
0	20
10	-10
20	-40
30	-70
40	-100
50	-130
60	-160
70	-190
80	-220
90	-250
100	-280

Answer:

$$Y = 20 - X * 3$$