

§ 1.1 Relations & Functions

Given the situations below, provide the domain and range of each and apply the vertical line test if possible to determine if the relation is a function.

Equation

$$y = -5x + 1$$

Domain:

Range :

VLT : Pass or Fail

Function : Yes or No

$$x^2 + y^2 = 36$$

Domain:

Range :

VLT : Pass or Fail

Function : Yes or No

$$y = 3x^2 - 5x + 7$$

Domain:

Range :

VLT : Pass or Fail

Function : Yes or No

Table

Student	Academic Award
Jean-Guy Antoine	Physics
Renée Petit	Music
Jean-Guy Antoine	Chemistry
Jordan Chad	Geography

Price of tickets (\$)	Net Profits (\$)
40	1200.00
55	1500.00
89	1750.00
110	1200.00

Domain:

Range :

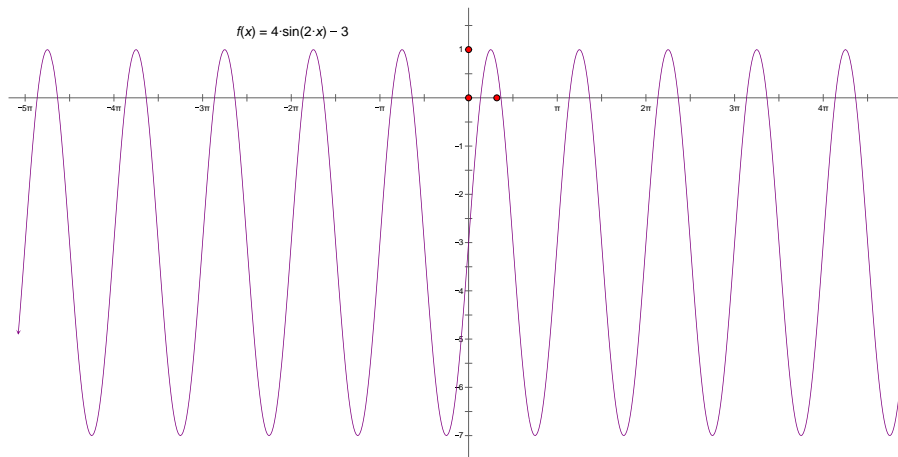
Function : Yes or No

Domain:

Range :

Function : Yes or No

Graph : $f(x) = 4\sin(2x) - 3$



Domain:

Range :

VLT : Pass or Fail

Function : Yes or No