1. Draw a graph of the following function using Excel or on graph paper.
2. Differentiate the function and finding the turning points.

**Answer**

= 0

When , y = -31

When , y = 33

1. A second function contains the points (2, -31) and (-2, 39). Find the equation of this line and draw it on the same graph you drew earlier.

**Answer**

=

1. Differentiate the following:

**Answer**

u = 2x + 1

=

**Answer**

u = 3x = 3

1. If
2. Find

**Answer**

= x

1. Find

**Answer**

=

1. Integrate the following
2. dx

**Answer**

**Answer**

sin x + c

**Answer**

=

**OR**

=

1. Find the shaded area.

Chart

Description automatically generated

**Answer**



=

= -

=