

2020

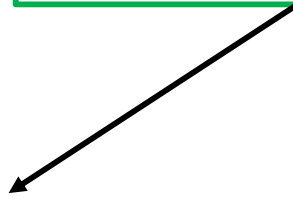
# GraphGenerator

FREEFORM MANUAL

UNIVERSITY OF THE WITWATERSRAND

# Graph Generator

This is the canvas where you can arrange the vertices and edges in your graph, and see a visual representation of it. You can click and drag between vertices to add an edge between them.



## Question setup:

Question Title:

- ☐ Colored
- ☐ Directed
- ☐ Weighted

Here, you can set the title of your graph, and indicate whether it will be colored, directed, and/or weighted.

Click the "Confirm" button to update the tools.

Confirm

**Add vertex:**

Value:

Add vertex

**Edit vertex:**

Choose vertex

Value:

Update vertex

**Delete vertex:**

Choose vertex

Delete vertex

Type in the value of the vertex you want to add. You can also add multiple vertices at once using a comma-separated list (e.g., "v1,v2,v3" to add vertices v1, v2, and v3).

Choose the existing vertex to edit from the dropdown box, and enter the value you want to update it to.

Choose an existing vertex from the dropdown list to delete.

**Root:**

Choose root vertex

Set Root

**Add edge:**

Vertex 1:

Vertex 2:

Add edge

**Delete edge:**

Choose edge

Delete edge

**Download**

Choose the root vertex of the graph from a dropdown list of existing vertices.

Choose two existing vertices from the dropdown boxes to add an edge between them.

Choose an existing edge from the dropdown list to delete it.

When you're ready, click the "Download" button to download a picture of your graph, and a text file containing a representation of your graph that is compatible with the markers in the Student Interface. You can also write your own handling/marking code for this file format.