Guidance on Graph Tools

For Examinees

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2. TYPES OF GRAPH TOOL

1. Introduction

This document explains basic understanding, key functionalities and usage of the graph tool available within the examination software.
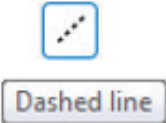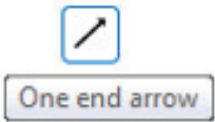
2. Types of graph tool

There are two types of graph tools in the examination software:
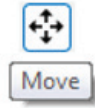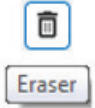
(i) Graphing tool   (ii) Free drawing tool

(i) Graphing tool
Key functions and features of various buttons available in the graphing tool are as follows:
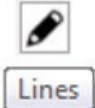
NO.	NAME OF BUTTON	BUTTON IMAGE	FUNCTION
1	Line	Line	To draw continuous straight line.
2	Dashed line	Dashed line	To draw dashed line.
3	One end arrow	One end arrow	To draw one end arrow line towards any direction e.g. right, left, up or down.
4	Two end arrow	Two end arrow	To draw two end arrow line.
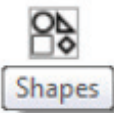
NO.	NAME OF BUTTON	BUTTON IMAGE	FUNCTION
5	Two end dot	Two end dot	To draw two end dotted line.
6	Curve line	Curve line	To draw curve line by clicking on the number of curve points.
7	Draw	Draw	To connect all curve points automatically. This button is activated once the curve points are plotted.
8	Freehand line	Freehand line	To draw straight line, curve etc. without assistance of any geometrical tools.
9	Plot point	Plot point	To plot points at any position on line/curve by clicking at the desired position.
10	Add label	Add label	To add text label to any position within the graph.
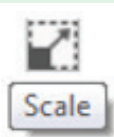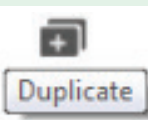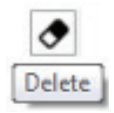
NO.	NAME OF BUTTON	BUTTON IMAGE	FUNCTION
11	Move	Move	It is used to: • move the text label to any position within the graph. • move or adjust the points of line/curve.
12	Eraser	Eraser	To delete lines, curves, text label etc. one by one.
13	Reset tool	Reset tool	It resets all the working on the graph without warning. Reset action cannot be reversed. Thus be careful while using this option.
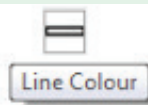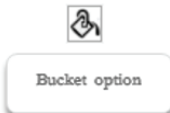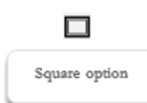
(ii) Free drawing tool

Key functions and features of various buttons available in the free drawing tool are as follows:

NO.	NAME OF BUTTON	BUTTON IMAGE	FUNCTION
1	Lines	Lines	To draw straight lines and curves by selecting appropriate options.

NO.	NAME OF BUTTON	BUTTON IMAGE	FUNCTION
2	Shapes	Shapes	To draw circle, oval, rectangle, triangle, right triangle and diamond.
3	Text	Text	To add text label within the graph at any position.
4	Text formatting buttons	Text formatting buttons	To apply font effects and edit text format, following buttons are available: • bold • italic • font size • font color
5	Object Selector	Object Selector	To select any object or text label.
6	Move	Move	To move selected text or object from one position to another within the graph.

NO.	NAME OF BUTTON	BUTTON IMAGE	FUNCTION
7	Rotate	Rotate	To rotate the selected object or text.
8	Scale	Scale	To enlarge or reduce the selected object.
9	Duplicate	Duplicate	To duplicate the selected object or text. This button is activated once the object or text is selected using object selector button.
10	Delete	Delete	To delete lines, curves, text label etc. one by one.
11	Line Width	Line Width	To increase or decrease line width of an object.
12	Line Dash Size	Line Dash Size	To apply different line styles with variable dash size.

NO.	NAME OF BUTTON	BUTTON IMAGE	FUNCTION
13	Line Colour		To change the color of the selected lines as well as to select color for new lines.
14	Bucket option		To fill selected shape with a solid color or to draw a shape with a solid color.
15	Square option		To apply selected color on the background of the graph.
16	Undo		To reverse the last performed action.
17	Redo		To repeat the last performed action.
18	Reset		It resets all the working on the graph. However, a dialogue box is popped up before triggering the reset operation. If that dialogue box is responded in affirmative, it resets the graph to blank. This action cannot be reversed.

Feasible region

Feasible region could be highlighted within the graph using shape along with bucket option.
Text label can also be used for that purpose. Following images illustrate how feasible region could be identified:

OPTION 1: USING SHAPE AND BUCKET BUTTON	OPTION 2: USING TEXT LABEL BUTTON
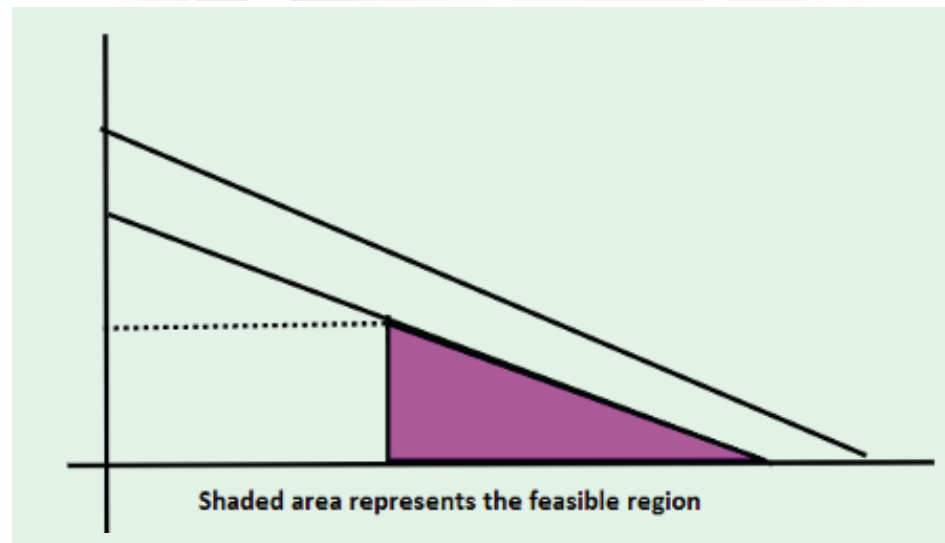
Shaded area represents the feasible region

Feasible region

C

A   B

Area of the triangle ABC represents the feasible region

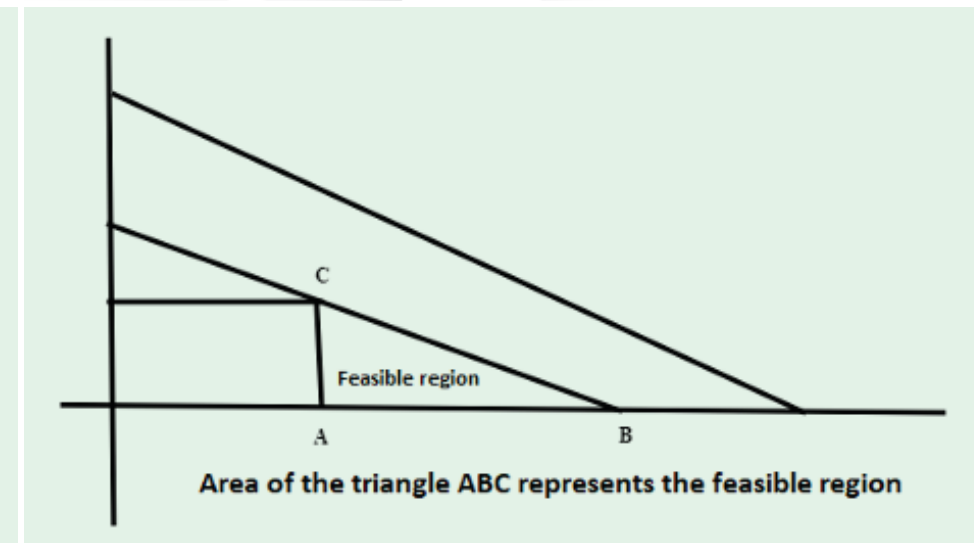|	
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