

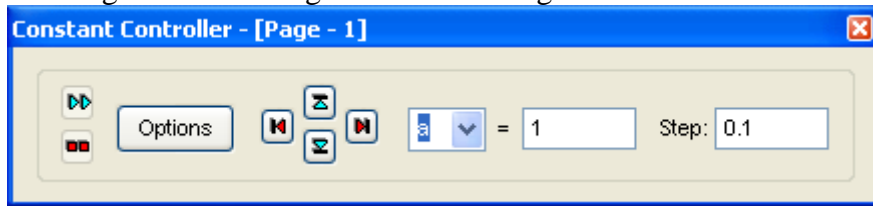


## Use of the Constant Controller in Autograph

The Constant Controller allows for the effect of varying a constant/parameter to be demonstrated. Initially it is not enabled (i.e. appears 'greyed-out'); however, when a point or line containing a constant is entered it is enabled (i.e. appears in colour like this: ).

### Example – A dynamic line

- Enter the equation  $y = ax + b$   
The Constant Controller  should become enabled.
- Clicking the controller gives the following menu:



- The up and down arrows allow for the constant to be varied by the “Step” size. The left and right arrows allow for the “Step” size to be varied.
- Where more than one constant appears in an equation, the constant to be varied can be selected from the drop-down menu.
- “Options” allows for either a family of curves to be plotted or to animate the effect of varying the constant.