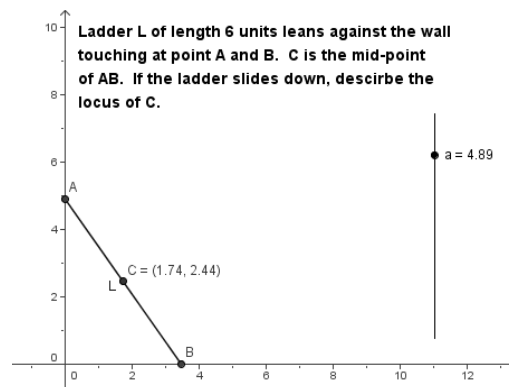







## Practice: Ladder on Wall

1. Create a dynamic worksheet that visualizes the situation of a ladder of length 6 units lean against a wall.
  - (a) Open GeoGebra (English) or Change the language under Options of the pull-down menu.
  - (b) Create objects on the drawing pad as follows:



	Objects to be created	Action
1.	Slider a	<ul style="list-style-type: none"> <li>• Select “ Slider” from menu button</li> <li>• Click on drawing pad</li> <li>• Set min = 0; max = 6; vertical ; width = 200 ; Increment = 0.01</li> </ul>
2.	Point A	<ul style="list-style-type: none"> <li>• Type “A=(0,a)” in the input field</li> </ul>
3.	Circle c	<ul style="list-style-type: none"> <li>• Type “c = Circle[A, 6]” in the input field</li> </ul>
4.	Point B	<ul style="list-style-type: none"> <li>• Select “ New Point”</li> <li>• Click on the point of intersection of circle c and x-Axis</li> </ul>
5.	Segment L	<ul style="list-style-type: none"> <li>• Select “ Segment between two points”</li> <li>• Click on Point A and B</li> <li>• Right click on segment and choose “redefine” from the sub-menu</li> <li>• Change the definition to “L = Segment[A,B]”</li> </ul>
6.	Mid-point C of AB	<ul style="list-style-type: none"> <li>• Select “ Midpoint or center”</li> <li>• Click on segment L</li> <li>• Right click on point C and choose “properties”</li> <li>• Select “Show label:” and choose “Name and Value”</li> <li>• Check “Show Trace”</li> <li>• Change the color of point C</li> </ul>
7.	Text for instruction	<ul style="list-style-type: none"> <li>• Select “ Insert text”</li> <li>• Click on drawing pad</li> <li>• Type the instruction</li> </ul>
8.	Hide unnecessary objects	<ul style="list-style-type: none"> <li>• Right on circle c and uncheck “Show object”</li> </ul>

(c) Save the file named as “LadderOnWall.ggb”.

2. The students may try to derive the equation of the locus of Point C.