## **The Unit Circle**

| Concepts                               | Objective  |
|--|--|
| Unit Circle                            | Students will use the unit circle to find the    |
| Ordered pair                           | value of trigonometric functions of various      |
| •                                      | angles.  |
| Materials                              |  |
| <ul> <li>TI-Nspire</li> </ul>          | Key Concept                                      |
| <ul> <li>TI-Nspire document</li> </ul> | The coordinates of points on the unit circle can |
|  | be used to determine the sine and cosine of      |
|  | engles   |



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3. Go to page 2.2 Press ctrl and right arrow key until you get to that page. Fig 5

- 4. Drag point B to find the sine and cosine of the  $\angle ACB$ 
  - To drag the point move the cursor on top of the point by using your NavPad
  - When the cursor becomes a hand press ctrl click to hold the point
  - Move the point to a different position using the NavPad
  - Press enter to drop the point (Figs 6)
- Move B and capture its coordinates in the different quadrants. To capture data press ctrl + . Fig 7
- 6. Go to page 2.4. Here you will see the graphs of the point that you captured. Could you explain where the graphs came from?



