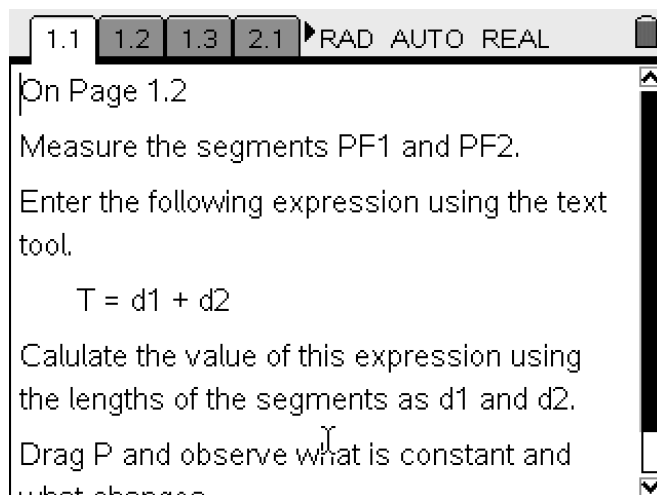


More Properties of an Ellipse

Name:

Open Ellipse Properties.tns through Home: My documents.

Read the directions on page 1.1. Some of the directions are below the viewing screen.



1.1 1.2 1.3 2.1 RAD AUTO REAL

On Page 1.2

Measure the segments PF1 and PF2.




Enter the following expression using the text tool.

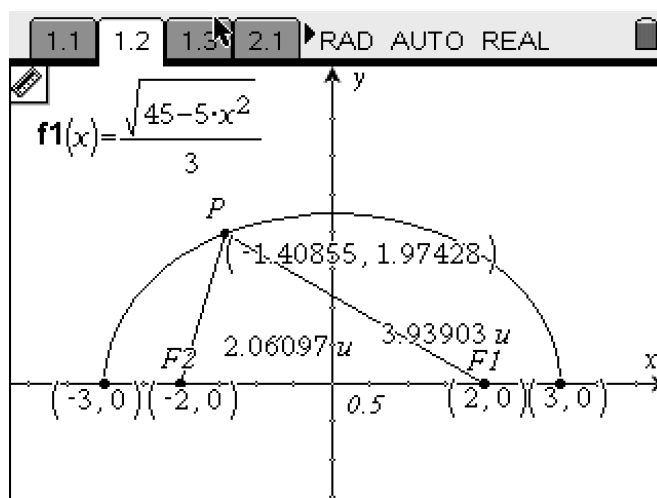
$$T = d1 + d2$$

Calculate the value of this expression using the lengths of the segments as d1 and d2.

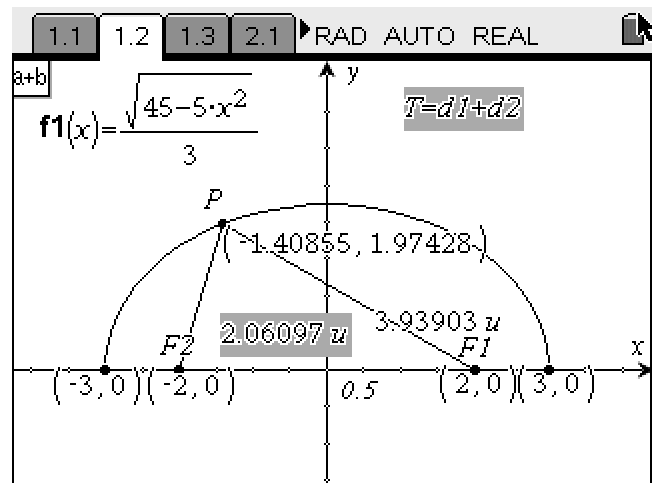
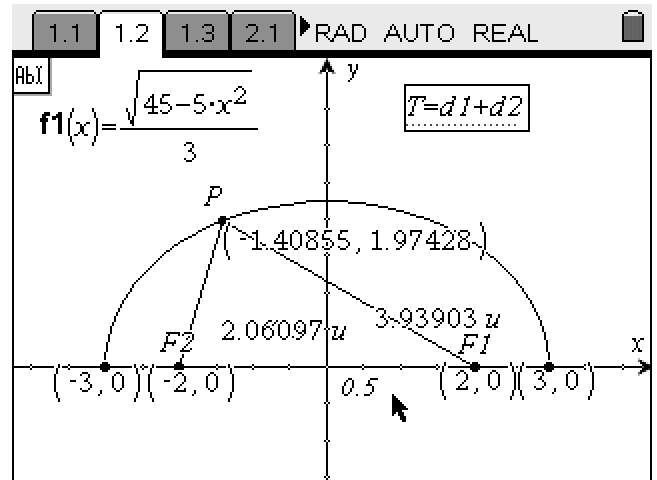
Drag P and observe what is constant and what changes.

Go to Page 1.2

Use    to measure the length of the segments $\overline{PF1}$ and $\overline{PF2}$. Drop the values near the segments.

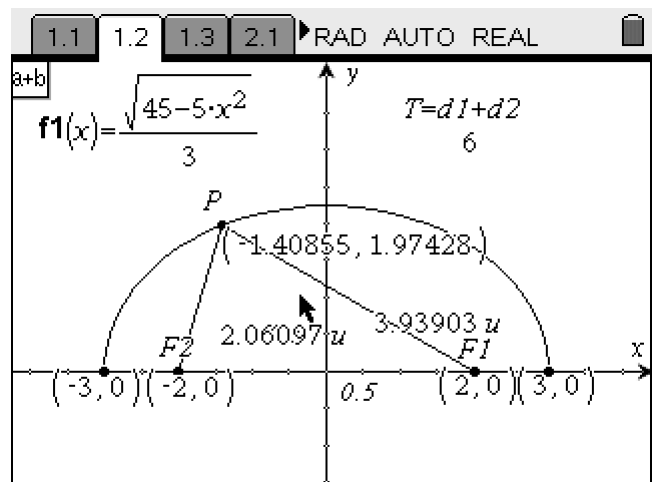


Using **menu** **1** **6** type the text box
 $T = d1 + d2$



Use **menu** **1** **8** Calculate the value for
the expression $T = d1 + d2$.

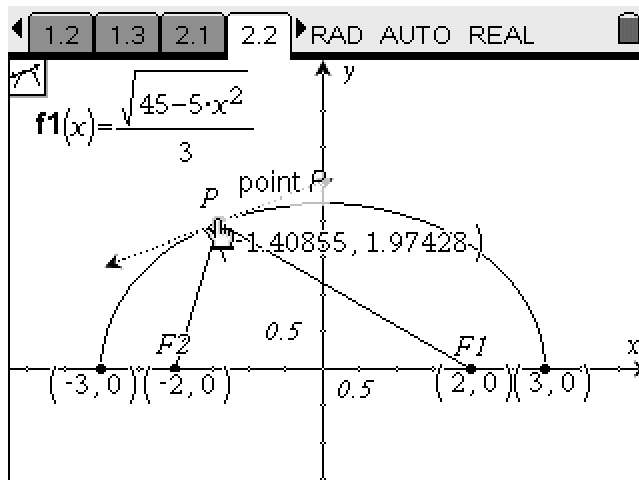
Drag Point P and write down your observations.



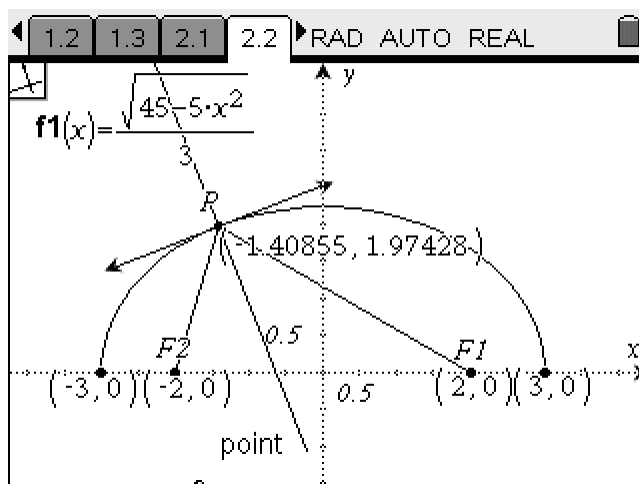
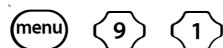
Go to Page 2.1. Read the directions.

Go to Page 2.2.

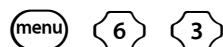
Draw a tangent at Point P



Draw a perpendicular to the tangent line through Point P



Find the intersection of the perpendicular line and the x-axis. Label this point Q .



Measure the angles $\angle QPF1$ and $\angle QPF2$



With the Text tool, make labels for these measurements.

Drag P and write your observations.

