

4. What is the **slope** of the line that includes the following two points or turtles (turtle #2 and turtle #1)? You are to give the SLOPE of the line that goes through the **Airplane** and the **BUG**. Note: You may use the *calc.exe* or *calc* Windows Calculator program to get the final answer, but you **MUST SHOW ALL your work** from the start to the finish step by step so I know you understand the equation.
5. What is the **distance** between the two turtles, turtle 2 and turtle 1? The distance between the AIRPLANE and the BUG shapes. Their settings (facts) are shown below. **Show ALL your work!**

The screenshot shows a turtle graphics environment with two turtles, turtle 1 and turtle 2, and a central diagram. A button labeled "showTs" is on the left. The central diagram shows two turtles: an airplane (turtle 2) and a bug (turtle 1). A line connects the two turtles, and a vertical double-headed arrow indicates the distance between them.

Command Center

turtle 2

who	2
color	0
heading	90
xcor	4
ycor	1
shape	"airplane"
label	""
label-color	9.9
breed	turtles
hidden?	false
size	1
pen-size	1
pen-mode	"down"

turtle 1

who	1
color	0
heading	45
xcor	5
ycor	4
shape	"bug"
label	""
label-color	9.9
breed	turtles
hidden?	false
size	1
pen-size	1
pen-mode	"up"

who	2
color	0
heading	90
xcor	4
ycor	1
shape	"airplane"

who	1
color	0
heading	45
xcor	5
ycor	4
shape	"bug"