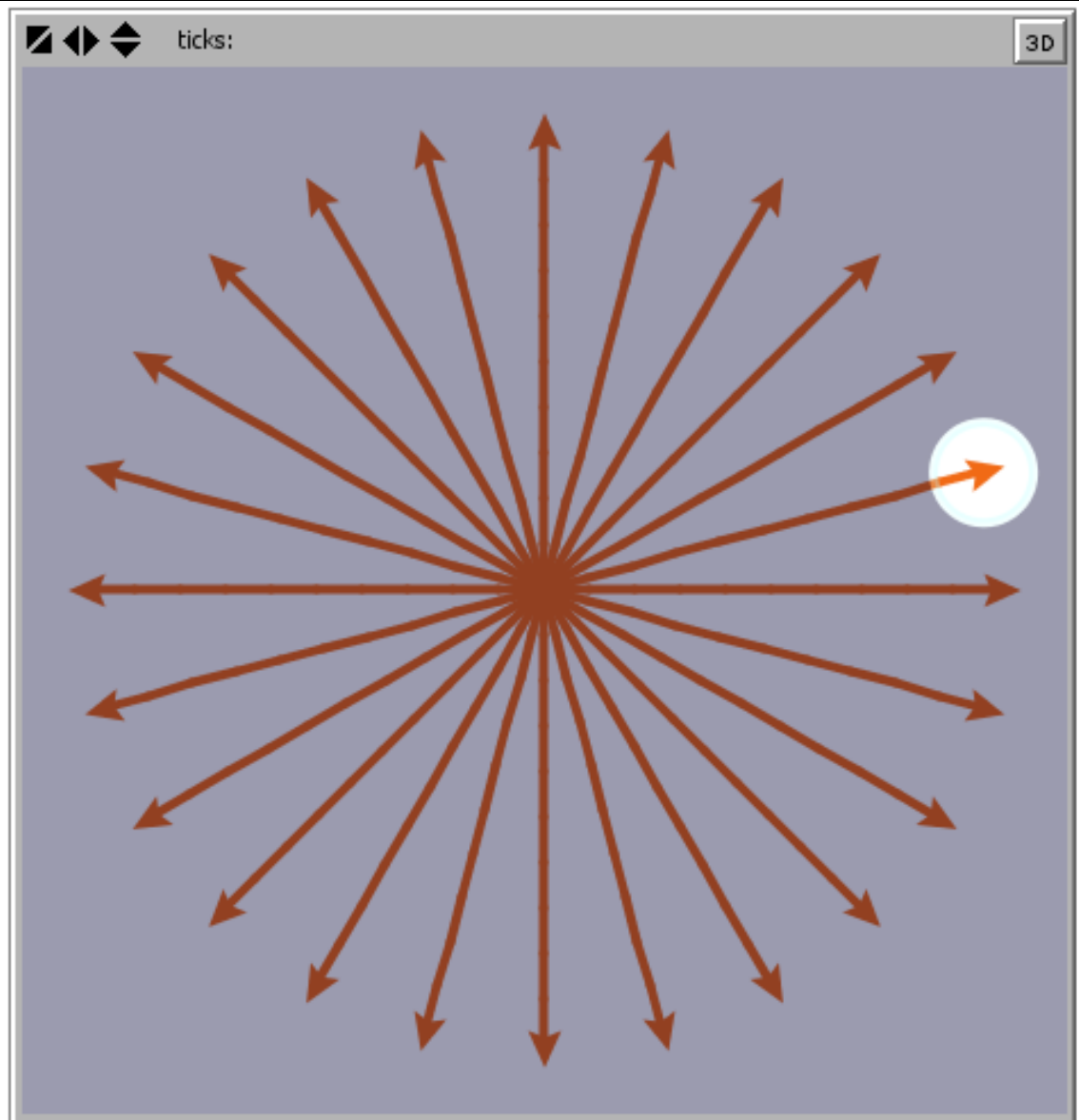


try24turtles



who	5
color	25
heading	
xcor	
ycor	
shape	"default"
label	"
label-color	9.9
breed	turtles
hidden?	false
size	1
pen-size	4
pen-mode	"down"

```
TO try24turtles
  ca
  ask patches [ set pcolor white ]
  cro 24
  ask turtles
  [
    set color orange
    set pen-size 4
    pd
    fd 10
  ]
END
```

You are to find the exact heading and the (xcor, ycor) exact location of the turtle with who #5. It is shown above with Watch Me turned on, and its Inspect details are shown to the left right here too, with heading, xcor and ycor hidden.

Turtle with WHO #5. The highlighted turtle is the turtle with who #5. **THREE QUESTIONS? ? ?**

The heading?

The xcor?

The ycor

VIP: You need to clearly show the steps and the process of arriving at your answers too! You may use the Windows calculator, but **SHOW** all your steps of the algebra too. VIP, VIP, VIP!

See the screen snapshot of the NetLOGO output and turtle who #5 on the separate page.

Name old test question

Wednesday, October 22, 2014

1. What is the **heading** for the turtle with WHO number 5 (it is the highlighted turtle)? **Show** how you calculated or arrived at the answer. Carefully and neatly **SHOW ALL** of YOUR WORK!!!! Do NOT just show the final answer.
2. What is the **xcor** for the turtle with who number 5? VIP!!!! You must show ALL your work and the detailed, step by step process of getting to the answer! Show how you move from WHAT to HOW. Show the algebra. Show the formulas. Show the numerators and denominators.
3. What is the **ycor** for the turtle with who number 5? Show your work and clearly illustrate the steps and process in how you got the answer. Rewrite your solution if necessary so it's clear and readable and could be used as a handout in the class as the way to problem solve.

DUE DATE: Thursday, February 26th, 2015.

SOH, CAH, TOA. Sine, Cosine, Tangent. Opposite side, Adjacent side, Hypotenuse. The sum of the squares of the length of the legs of a right triangle is the square of the length of the hypotenuse. 3 squared plus 4 squared = $9 + 16 = 25$. What is the square root of 25? 5. Draw a 3 by 4 by 5 triangle with a right (90 degree) angle. Classic example for Pythagorean theorem.

Study the many examples from class and from the class web site. Draw pictures. Take notes. Practice.

Note: There is NOT ROOM to be putting your answers on this sheet of paper!!!! Write up your homework on a separate sheet of paper please!