

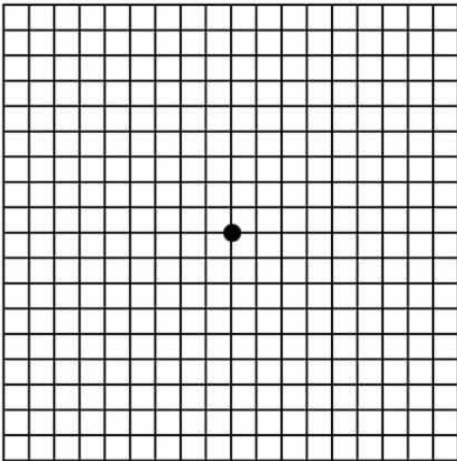
Name: _____
Date: _____
Class: _____

Geometry
Unit 10
HW 10-5

1) What is the center and radius of: $(x+4)^2 + (y-2)^2 = 100$?

2) Write the equation of a circle that has a center of $(-3, 4)$ and radius $\sqrt{5}$

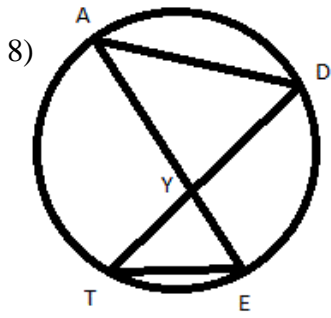
3) Sketch the circle $x^2 + (y-2)^2 = 25$



5) Write the equation of a circle with center $(0, 0)$ and radius 6.

6) If $x^2 + 4x + y^2 - 6y - 12 = 0$ is the equation of a circle, the length of the radius is

7) What are the coordinates of the center and length of the radius of the circle whose equation is $x^2 + 6x + y^2 - 4y = 23$?



In this circle, \overline{AE} is a diameter. $\widehat{AD} : \widehat{DE} : \widehat{TE} = 5 : 4 : 2$.
Find $m\angle DYE$.

9) Using the diagram for #8, if $m\angle AYD = 4x + 1$, $m\widehat{AD} = 6x - 11$,
and $m\widehat{TE} = 2x + 13$. Find $m\angle TYE$.