Quiz: HSG.GPE.A.1

1. The general form of the equation of a given circle is $x^2+y^2+4x+2y-4=0$.

   What is the general form of the equation of a circle that is concentric to the given circle and passes through the point (1, 3)?

   _____

   Write your answer in the space provided.

2. The general form of the equation of a circle with center A is $x^2+y^2+6x-10y+9=0$.

   The general form of the equation of a circle with center B is $x^2+y^2-10x+2y+1=0$.

   What is the general form of the equation of the circle that has diameter $\overline{AB}$?

   The general form of the equation of the circle that has diameter $\overline{AB}$ is _____.

   Write your answer in the space provided.

3. The general form of the equation of a circle with is $x^2+y^2+Ax+By+C=0$.

   What are the center and radius of the circle?

   The center of the circle is the point _____.

   The radius of the circle is _____.

   Write your answers in the spaces provided.