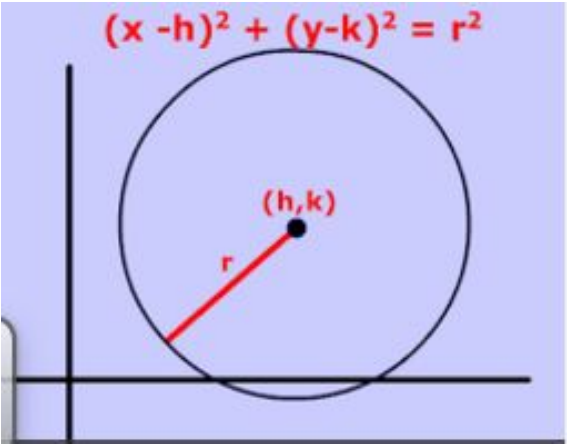


## WRITING AN EQUATION OF A CIRCLE GIVEN THE ENDPOINTS OF A DIAMETER

|   |   |  |
|---|---|--|
|  | 1 | Find the center of the circle using the midpoint formula.                                  |
|   | 2 | Find the radius from the center to an endpoint of the diameter using the distance formula. |
|   | 3 | Use center and radius to write the equation of your circle in standard form. BOOM!         |

**EXAMPLE 1:** Find an equation of the circle whose diameter has endpoints (3, -5) and (-5, -1).

**EXAMPLE 2:** Find an equation of the circle whose diameter has endpoints (-2, -4) and (2, -6)