## Questions

1. Determine the center and radius of the circle and the sketch: $x^{2}-8 x+y^{2}-10 y=-5$.
2. Can you find two points such that their coordinates are integers and the distance between them is 10 ? $\sqrt{10}$ ? Explain.
3. Show that the midpoint of the hypotenuse of any right triangle is equidistant from all three vertices.
