

NAME: _____

1. Describe the locus of points 6 units from $(-2, 4)$ in the coordinate plane.

2. Describe the locus of points equidistant from A' and C' , where $A = (2, 3)$, $C = (4, -1)$, and A' and C' result from a reflection in the x -axis. How does this locus compare to the locus of points equidistant from A and C ?

[1] a circle with center $(-2, 4)$ and radius 6

The line through $(3, -1)$ with slope $-\frac{1}{2}$; the locus of points equidistant from A and C contains $(3, 1)$

[2] and has opposite slope, that is slope of $\frac{1}{2}$.