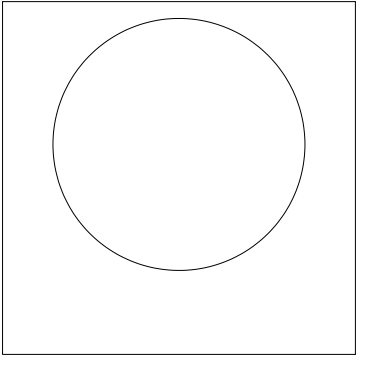
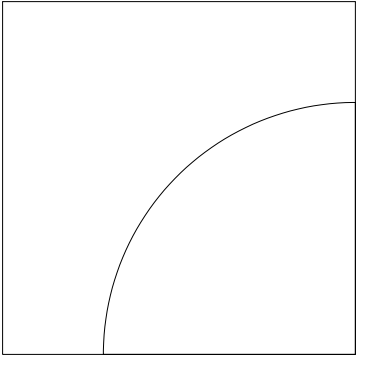


(−256,−314)



(−500,200)

COAL_IMAGE needs the coordinate of the lower left corner relative to sun center. So if the sun center is to the right, the X value is negative, and if the sun center is up, then the Y value is negative.