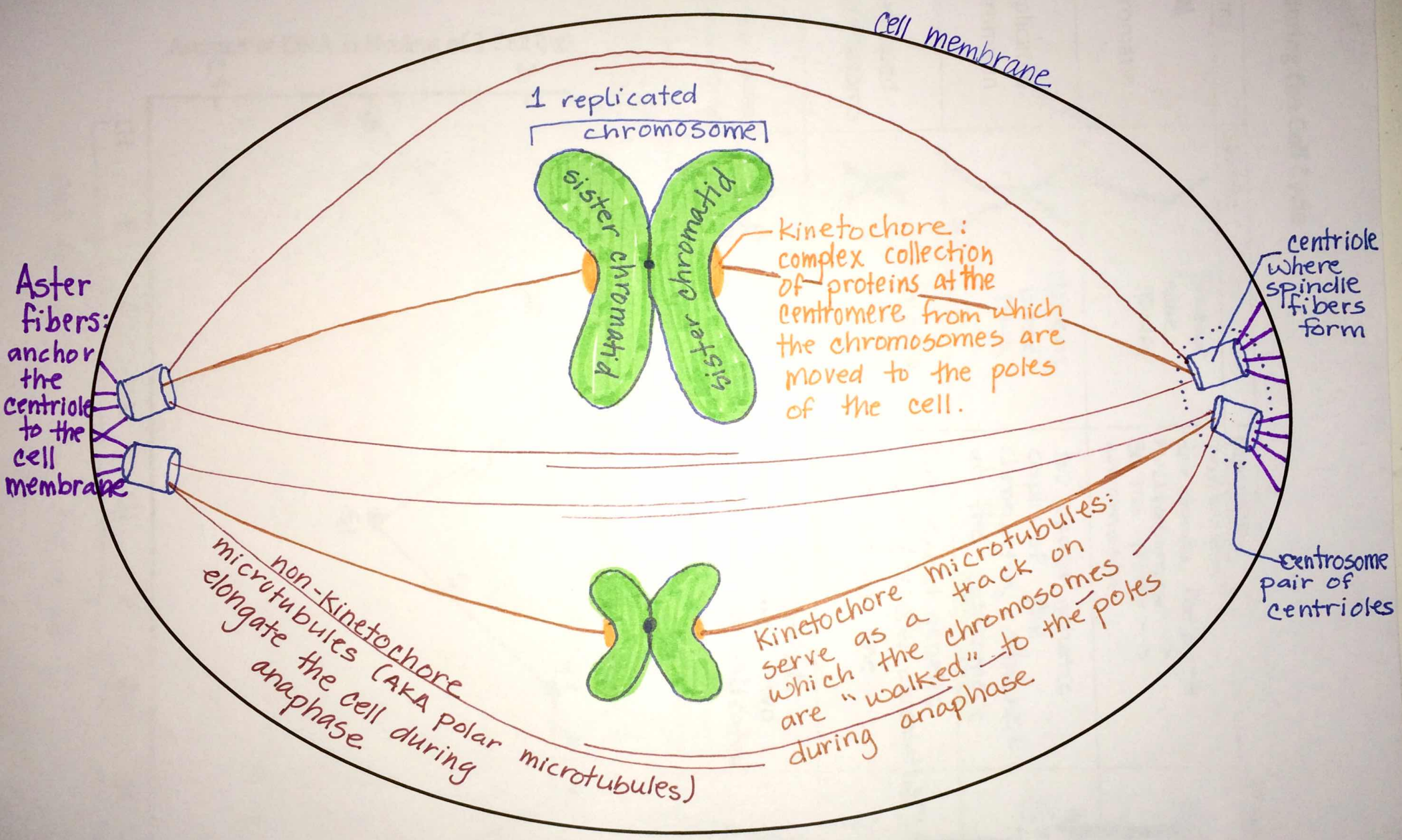


A Cell at Metaphase



Aster fibers: anchor the centriole to the cell membrane

1 replicated chromosome

sister chromatid

kinetochore: complex collection of proteins at the centromere from which the chromosomes are moved to the poles of the cell.

centriole where spindle fibers form

centrosome pair of centrioles

non-kinetochore microtubules (AKA polar microtubules) elongate the cell during anaphase.

Kinetochore microtubules: serve as a track on which the chromosomes are "walked" to the poles during anaphase.