

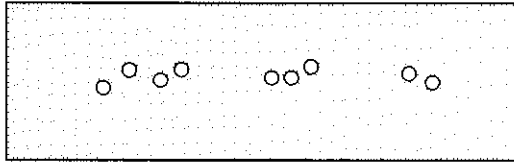
## Part I: Stars in the Sky

Consider the diagram to the right.

- 1) Imagine that you are looking at the stars from Earth in January. Use a straightedge or a ruler to draw a straight line from Earth in January, through the Nearby Star (Star A), out to the Distant Stars. Which of the distant stars would appear closest to Star A in your night sky in January? Circle this distant star and label it "Jan."

- 2) Repeat Question 1 for July and label the distant star "July."

- 3) In the box below, the same distant stars are shown as you would see them in the night sky. Draw a small  $\times$  to indicate the position of Star A as seen in January and label it "Star A Jan."



- 4) In the same box, draw another  $\times$  to indicate the position of Star A as seen in July and label it "Star A July."

- 5) Describe how Star A would appear to move among the distant stars as Earth orbits the Sun counterclockwise from January of one year, through July, to January of the following year.

