

25. From the Figure we see that, regarding differences in positions  $\Delta x$ , 212 S is equivalent to 258 W and 180 S is equivalent to 156 Z. Whether or not the origin of the Zelda path coincides with the origins of the other paths is immaterial to consideration of  $\Delta x$ .

(a)

$$\Delta x = (50.0 \text{ S}) \left( \frac{258 \text{ W}}{212 \text{ S}} \right) = 60.8 \text{ W}$$

(b)

$$\Delta x = (50.0 \text{ S}) \left( \frac{156 \text{ Z}}{180 \text{ S}} \right) = 43.3 \text{ Z}$$