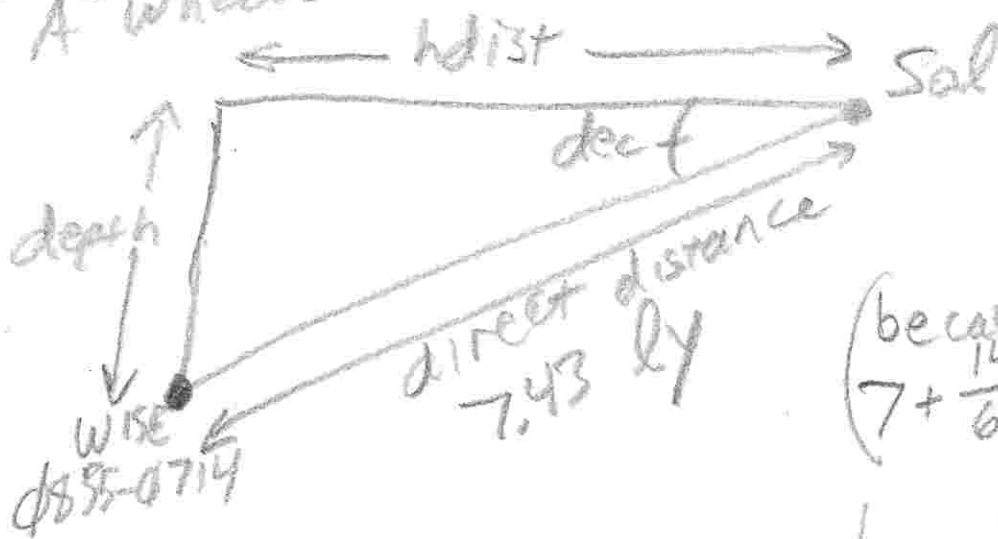


# Locating WISE $\phi 855-\phi 714$ on StarForce map

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dec =  $7.245139^\circ$   
 (because that is  $7 + \frac{14}{60} + \frac{42.5}{3600}$ )

**SOH**

$$\sin(\text{dec}) = \frac{\text{opp}}{\text{hyp}} = \frac{\text{depth}}{7.43}$$

$$\text{depth} = 7.43 \sin(\text{dec}) = 0.93 \text{ ly}$$

Goes below, so really  $-0.93 \text{ ly}$

round to  $-1 \text{ ly}$  depth

**CAH**

$$\cos(\text{dec}) = \frac{\text{adj}}{\text{hyp}} = \frac{\text{hdist}}{7.43}$$

$$\text{hdist} = 7.43 \cos(\text{dec})$$

$$\text{hdist} = 7.37 \text{ ly (horizontal distance)}$$

Double check:  $a^2 + b^2 = c^2$ , so it should mean  $(.93)^2 + (7.37)^2 = (7.43)^2$

Is it true? yes!

-David A Wheeler