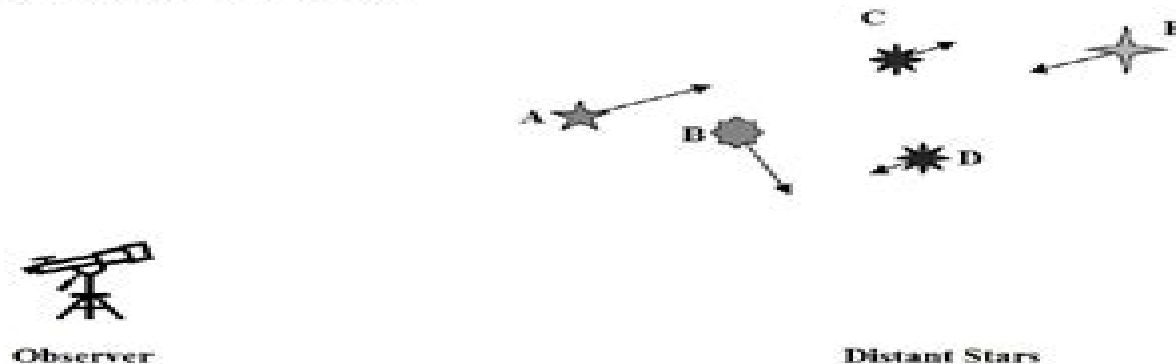


### Exercise #3

**Description:** The figure below shows the motion of five distant stars (A - E) relative to a stationary observer (telescope). The speed and direction of each star is indicated by the length and direction of the arrows shown.



**Ranking Instructions:** Rank the Doppler shift of the light observed from each star (A - E) from greatest "blueshift", through no shift, to greatest "redshift".

**Ranking Order:**

Greatest blueshift 1 E  
2 D  
3 B  
4 C  
Greatest redshift 5 A

Or, the Doppler shift for each star is the same. \_\_\_\_\_ (indicate with check mark).

**Carefully explain your reasoning for ranking this way:**

The observer sees the great blueshift due to Star E that's moving fast towards it. Star E and Star D are similar, they both move towards the observer at a slower rate. Star B is not moving away or towards so is in the middle. The star that has the redshift and is moving the fastest from the observer is Star A. Star C is almost as Star A but not as extreme as Star A as it moves away from the observer at a slower rate.

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