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- a) A blue star.
- b) A red star.
- c) A planet that emits only infrared light.











Thought Question I measure a line in the lab at 500.7 nm. The same line in a star has wavelength 502.8 nm. What can I say about this star?

a) It is moving away from me.

- b) It is moving toward me.
- c) It has unusually long spectral lines.

v/c = (observed-lab)/lab = (502.8-500.7)/500.7=0.004v = 0.004 c = 0.004 3x10⁵ km/s = 1200 km/s

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