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Hubble Constant

Q1.

What is the Hubble Constant and what does it tell us?

Q2.

What is the current estimate for the Hubble Constant and what are its units?

Q3.

How can we use the Hubble Constant to estimate the age of the Universe?

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Q4.

How can we measure the distance and speed of a far galaxy?

Q5 (sus).

What are some sources of uncertainty or error in measuring the Hubble Constant?

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Q6 (sus).

A galaxy is observed to have a redshift of 0.01. What is its speed away from us and its distance from us? Use H0 = $2.2 \times 10-18$ per second.

Q7.

If a galaxy is 2.0 × 10^{25} m away from us and has a speed of 4.4 × 10^6 m/s, what is the value of H₀?

Q8.

If a galaxy has a speed of 3.3×10^6 m/s and the value of H0 is 1.1×10^{-18} per second, what is its distance from us?

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Q9.

If a galaxy is 1.8×10^{25} m away from us and the value of H₀ is 2.7×10^{-18} per second, what is its speed away from us?

