One evening, Jesse looked into the night sky and saw a full moon. Around four days later, he glanced into the sky and noticed that less of the moon was illuminated (visual below).

a) What phase of the moon is represented in the visual above?

b) If Jesse were to look into the night sky approximately four days after seeing the visual above, what phase will the moon be in? Explain your reasoning.

c) Is Jesse observing a waxing moon, or a waning moon? Explain your reasoning.

d) Consider the first night that Jesse saw the full moon, how many days will it take for Jesse to see another full moon?