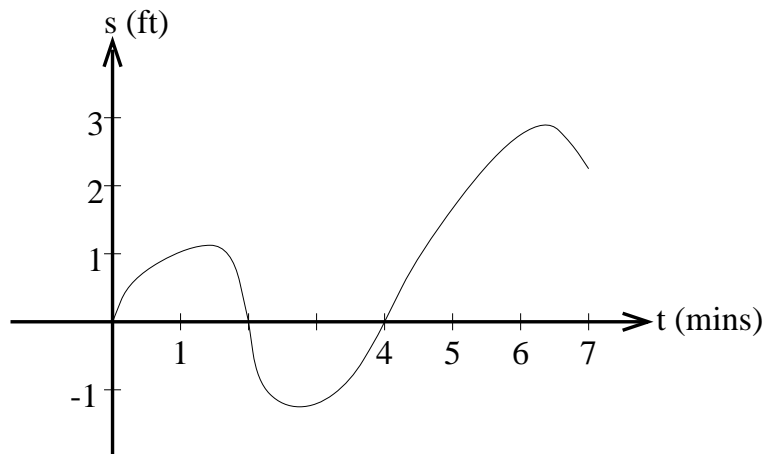**10.** (14 pts.) A particle is moving along a straight line. Its distance, s, measured in feet to the right of a fixed point at time t minutes, is given by the graph in the figure.

(a) Over which time interval(s) is the particle moving to the right? Explain.

(b) Over which time interval(s) does the particle have negative acceleration? Explain.

(c) At approximately which time does the particle have the highest speed? **(Recall that speed is the magnitude of the velocity.)** Explain your answer.

(d) On the axes above, sketch a graph of the velocity function.

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