*Tide Problem.* Mrs. Fuston is on the beach in Ft. Pierce, Florida, on her birthday August 26<sup>th</sup>. At 2:00 pm, high tide, she finds that the depth of the water at the end of the jetty is 0.5 meters. At 7:30 pm, low tide, the depth of the water is 0.1 meters. Assume that the depth varies sinusoidally with time.

Using the graph below, answer the following questions:

