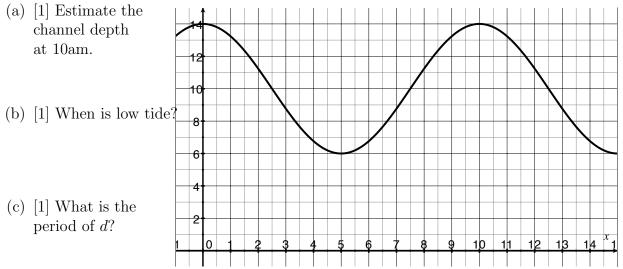
Quiz 4

Name(s):

Show all your work. Reasonable supporting work must be shown for any partial credit.

- 1. [2] Find three angles θ so that $\cos(\theta) = \frac{\sqrt{2}}{2}$.
- 2. The depth of water in d feet, in a channel x hours after midnight is graphed below.



(d) [2] Describe either:

- the graph transformations need to transform the basic cosine graph into the graph of d(x), or
- the amplitude, period, and phase shift for the graph of d(x).
- (e) [3] Find an algebraic rule for the function d (note that there are *many* correct answers for this!).