MODELLING REAL SITUATIONS WITH TRIGONOMETRIC FUNCTIONS #2

The function gives the depth of water, metres, at any time, hours during a certain day. A cruise ship needs at least 8 metres of water to dock safely.

PARTNER A : Determine the maximum and minimum depths of the water and write down the amplitude.		
Partner B check and initial:		
PARTNER B: Determine the centre of the graph and the function's vertical displacement. Label the vertical axis.		
Partner A check and initial:		
PARTNER A : Determine the period of the funct label the horizontal axis.	ion and	PARTNER B: Graph the function.
Partner B check and initial:		Partner A check and initial:
PARTNER A : Determine the first time during the day when the water depth is a maximum.	PARTNER E	3: Confirm algebraically.
Partner B check and initial:		Partner A check and initial:
PARTNER B : Determine the first time during ▶ the day when the water depth is a minimum.	PARTNER A	A: Confirm algebraically.
Partner A check and initial:		Partner B check and initial:
PARTNER A : Use the graph of the function to estimate the number of hours in the 24 hour interval starting at during which the cruise ship can dock safely.	PARTNER E	3: Confirm algebraically.
Partner B check and initial:		Partner A check and initial: