

Problem of the Day (November 21, 2017)

Grain is being added to a cargo ship at a rate of $16 - t^2$ tons per hour, $0 \leq t \leq 4$.

1. At what rate is the grain entering the cargo ship at hour 1?
2. At what rate is the grain entering the cargo ship at hour 3?
3. Draw a picture that represents the amount of grain that has entered the ship during the time interval $t = 1$ to $t = 3$.
4. Calculate the amount of grain that has entered the ship during the time interval $t = 1$ to $t = 3$.

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