t se	ter is poured into a tank at a constant rate of $500 \mathrm{cm}^3$ per second. The depth of water in the tank conds after filling starts, is $h \mathrm{cm}$ . When the depth of water in the tank is $h \mathrm{cm}$ , the volume, $V \mathrm{cm}^3$ vater in the tank is given by the formula $V = \frac{4}{3}(25 + h)^3 - \frac{62500}{3}$ .
(a)	Find the rate at which $h$ is increasing at the instant when $h = 10 \mathrm{cm}$ .

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Find the value of $V$ at this instant.	
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