

The diagram shows a water container in the form of an inverted pyramid, which is such that when the height of the water level is h cm the surface of the water is a square of side $\frac{1}{2}h$ cm.

(i)	Express the volume of water in the container in terms of h .	[1]
	[The volume of a pyramid having a base area A and vertical height h is $\frac{1}{3}Ah$.]	
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Water is steadily dripping into the container at a constant rate of 20 cm³ per minute. (ii) Find the rate, in cm per minute, at which the water level is rising when the height of the water level is 10 cm. [4]