8	Liquid drips onto a large horizontal flat cloth, forming a circular stain.	
	The liquid starts to drip onto the cloth at time $t = 0$	
	The area of the stain increases at a constant rate of $1.5\mathrm{cm^2/s}$	
	(a) Find, in terms of $\pi$ , the radius of the stain at time $t = 4$ seconds.	(2)
		(3)
	(b) Find, in cm/s to 3 significant figures, the rate at which the radius of the stain is increasing at time $t = 4$ seconds.	
		(4)

