11	The random variable <i>Y</i> has the distribution $N(\mu, \sigma^2)$ .		
	(a)	Find $P(Y > \mu - \sigma)$ .	[1]
	(b)	Given that $P(Y > 45) = 0.2$ and $P(Y < 25) = 0.3$ , determine the values of $\mu$ and $\sigma$ .	[6]
	The	random variables $U$ and $V$ have the distributions $N(10, 4)$ and $N(12, 9)$ respectively.	
	(c)	It is given that $P(U < b) = P(V > c)$ , where $b > 10$ and $c < 12$ .	
		Determine $b$ in terms of $c$ .	[2]