a) Solve $x^{2} + y^{2} = 34$ $y = x + 2$		b) Solve $x^{2} + y^{2} = 17$ $y = x - 3$	
Substitute $y = x + 2$ into the first equation	$x^2 + (x+2)^2 = 34$	Substitute $y = x - 3$ into the first equation	$x^2 + (x - 3)^2 = 17$
Expand the bracket and simplify the equation	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Expand the bracket and simplify the equation	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Make the right-hand side 0 and solve the equation	$2x^{2} + 4x - 30 = 0$ $x^{2} + 2x - 15 = 0$ $(x + 5)(x - 3) = 0$ $x = -5 \text{ and } x = 3$ $y = x + 2$	Make the right-hand side 0 and solve the equation	$2x^{2} - 6x - 8 = 0$ $x^{2} - 3x - 4 = 0$ (x - 4)(x + 1) = 0 x = 4 and x = -1
Calculate the values of y	y = -3 and $y = 5$	Calculate the values of y	
Write your solutions	x = -5, y = -3 and $x = 3, y = 5$	Write your solutions	

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c) Solve $x^{2} + y^{2} = 85$ $y = x + 1$		d) Solve $x^{2} + y^{2} = 37$ $y = x - 5$		
Substitute $y = x + 1$ into the first equation	$x^2 + (x+1)^2 = 85$			
Expand the bracket and simplify the equation				
Make the right-hand side 0 and solve the equation				
Calculate the values of y				
Write your solutions				

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