More Quadratic Equations and Inequalities Revision

(a)	(b)	(c)	(d)
Solve $x^2 + x - 20 = 0$	Solve, by completing the square, $x^2 + 6x + 3 = 0$ giving answers in surd form	Solve $(x + 3)(x - 5) > 0$	Solve $3x^2 - 11x - 7$ giving your answers to 3 significant figures
(e)	**(f)**	**(g)**	**(h)**
Solve $x^2 \leq 25$	Solve $5x^2 + 18x = 8$	Solve $y = x + 1$ $y = x^2 + 5x - 11$	Solve $2x^2 - 13x + 10 < 0$

(i)	(j)	(k)
The area of a triangle with base $(x + 9)$ cm and height $(2x + 1)$ cm is $21\ cm^2$. Find the value of x.	A rectangle has a length of $(x - 6)$ cm and a width of $4x$ cm. The area of the rectangle is less than $13\ cm^2$. Find the range of possible values of x.	Solve $x + 2y = 7$ $x^2 + y^2 = 10$