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| **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 $\left(x+3\right)\left(x-5\right)>0$ | 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$$x+2y=7$$$$x^{2}+y^{2}=10$$ |