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| LITERACYFind a definition for the following key words:* Quadratic
* Equation
* Factorise
 | RESEARCHFind out the quadratic formula and what it is used for.  | MEMORYAnswer this question without looking it up.What format does our quadratic equation have to be in for us to identify the solutions? |
| SKILLS1) Solve following equations.b) $x^{2}=10x-21$1. $x^{2}-6x=8$

3) Solve these equations, showing each step clearly.1. $x^{2}-2x-35=0$
2. $x^{2}-14x+24=0$
3. $x^{2}+2x+1=0$
4. $x^{2}+8x+12=0$

2) Solve these equations, showing each step clearly.b) $\left(2x-6\right)\left(x+12\right)=0$1. $\left(x+5\right)\left(x-3\right)=0$
 | STRECHThe area of the triangle is 20cm2Work out the values $x$$$(x+3)$$$$(x-5)$$ |