**Solving Quadratic Inequalities**

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| **Original inequality** | **Solution of quadratic equation** | **Graph showing inequality region** | **Solution of inequality** |
| $$(x-5)(x+3)\geq 0$$ |  |  |  |
| $$(x-3)(x-5)<0$$ |  |  |  |
| $$(x+4)(x-7)>0$$ |  |  |  |
| $$x²+10x+21\geq 0$$ |  |  |  |
| $$x²+6x+5>0$$ |  |  |  |
| $$x²-3x+2<0$$ |  |  |  |

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| **Original inequality** | **Solution of quadratic equation** | **Graph showing inequality region** | **Solution of inequality** |
| $$x²+7x+12\geq 0$$ |  |  |  |
| $$x²-12x+35\leq 0$$ |  |  |  |
| $$x²+x-6\leq 0$$ |  |  |  |
| $$x²\geq 4x+21$$ |  |  |  |
| $$5x²-11x+2\leq 0$$ |  |  |  |
| $$18+3x-x²>0$$ |  |  |  |