Fill In The Blanks…

**Solving Quadratic Inequalities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Quadratic Inequality** | **Factorised Quadratic** | **Critical Values** | **Sketch and Shade** | **Solution** |
| $$x^{2}-3x-10<0$$ | $$\left(x-5\right)\left(x+2\right)<0$$ | $$x=5,$$$$x=-2$$ |  | $$-2<x<5$$ |
| $$x^{2}+4x-12<0$$ | $$\left(x+6\right)\left(x-2\right)<0$$ |  |  |  |
| $$x^{2}-6x+5<0$$ |  |  |  |  |
| $$x^{2}+5x+6\leq 0$$ |  |  |  |  |
| $$x^{2}-4x-12>0$$ | $$\left(x-6\right)\left(x+2\right)>0$$ | $$x=6, $$$$x=-2$$ |  | $$x<-2,$$$$x>6$$ |
| $$x^{2}+4x+3\geq 0$$ |  |  |  |  |
| $$x^{2}-x-6\geq 0$$ |  |  |  |  |
|  |  |  |  | $$-4<x<1$$ |