Math 4 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1-5 NLA Practice** Date\_\_\_\_\_\_\_\_

Solve the following inequalities by using number line analysis.

**1.** $\left(x-3\right)\left(x+4\right)>0.$ **2.**  $x^{2}-10x+24\leq 0. $

**3.** $x^{2}\left(2x-1\right)(x+7)\geq 0.$ **4.**  $x^{2}-9<0.$

**5.**  $x^{5}-4x^{4}+3x^{3}>0$. **6.** $3x^{2}+x-15\leq 2x^{2}-4x+9.$

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**7. ** **8.**  $x^{3}+2x^{2}-x-2\leq 0.$