**Match each inequality from section I to a solution from section II and the correct graph from section III. Be sure to show all work necessary for each inequality.**

**Section 1 – The Problem**

**1**. $x+5>9$ **2**. $2x<-8$ **3**. $\frac{x}{-4}\geq 1$ **4**. $x-5\leq -3$

**5**. $-3x\leq -6$ **6**. $x+2>-2$

**Section II – The Solution**

a. $x\geq 2$ b. $x\leq -4$ c. $x>4$ d. $x>-4$ e. $x\leq 2$ f. $x<-4$

**Section III – The Graph**

|  |  |  |
| --- | --- | --- |
| Section 1 Inequality | Section 2 Solution | The Graph |
|  |  | http://www.sos.siena.edu/%7Ejcummings/teaching/astronomy/lectures/reveal.js-master/ch04.figs/number_line.gif |
|  |  | http://www.sos.siena.edu/%7Ejcummings/teaching/astronomy/lectures/reveal.js-master/ch04.figs/number_line.gif |
|  |  | http://www.sos.siena.edu/%7Ejcummings/teaching/astronomy/lectures/reveal.js-master/ch04.figs/number_line.gif |
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