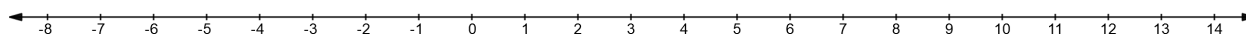# Video Study Guide:
## Solving Inequalities with Variables on Both Sides

1. Solve $-8x - (x + 1) \geq -7x + 3$ and graph the solution on a number line.

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◄─┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼──►
  -8   -7   -6   -5   -4   -3   -2   -1    0    1    2    3    4    5    6    7    8    9   10   11   12   13   14
```

2. Solve $-8x > -12\left(\frac{1}{2}x + 2\right) + 8$ and graph the solution on a number line.

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◄─┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼────┼──►
  -8   -7   -6   -5   -4   -3   -2   -1    0    1    2    3    4    5    6    7    8    9   10   11   12   13   14
```