

Part 1: Solve by graphing each of the following on a number line:

- 1) $3 < x \leq 5$
- 2) $x \geq 4$ and $x < 7$
- 3) $x < -1$ or $x \geq 5$
- 4) $x \geq 0$ and $x < 4$
- 5) $x \geq 4$ and $x > 7$
- 6) $x < -5$ and $x > 1$
- 7) $x > -1$ or $x < 3$

Part 2: Solve each absolute value equation or inequality. Graph the real numbers that satisfy each of the following on a number line:

- 8) $|x| = 8$
- 9) $|x| \geq 6$
- 10) $|x| \leq 0$
- 11) $|x - 3| \leq 5$
- 12) $|x + 3| \leq 6$
- 13) $|x - 4| \geq 3$
- 14) $|2x - 5| \leq 16$

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