1 Solution Sets

Please indicate the solution set of the following inequalities.

- 1. $\frac{3-x}{2} < 5$
- 2. $3 (x+1)^2 \ge 2 + \frac{2}{3}x$
- 3. $5(x+3(1-x)+2) \ge 7$
- 4. $x+2 \ge -\frac{1}{x}$

Solution:

- 1. $\mathbb{L} = \{x | -7 < x\}$
- 2. $\mathbb{L} = \{x | -\frac{8}{3} \le x \le 0\}$
- 3. $\mathbb{L} = \{x | x \le -\frac{9}{5}\}$
- 4. $\mathbb{L} = \{x | x = -1 \lor x > 0\}$