Solve the inequality. Then graph the solution set. (Sign chart method)

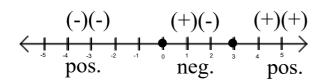
$$3x^2 - 9x \ge 0$$

 $3x^2 - 9x > 0$ 1) Set equation equal to 0.

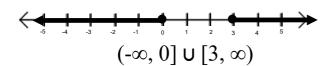
$$3x(x-3) \ge 0$$
 2) Factor

$$x = 0$$
 and $x = 3$

3) Find the zeros



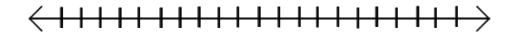
- 4) Graph on number line
- 5) Test values with sign chart



6) Write solution set

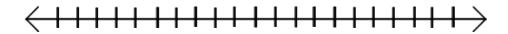
Solve the inequality. Then graph the solution set. (Sign chart method)

$$x^2 \le 25$$



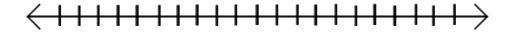
Solve the inequality. Then graph the solution set. (Sign chart method)

$$(x-3)^2 > 1$$



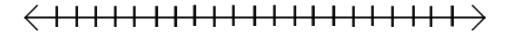
Solve the inequality. Then graph the solution set. (Sign chart method)

$$-2x^2 + 6x \le -15$$



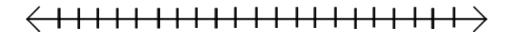
Solve the inequality. Then graph the solution set. (Sign chart method)

$$x^3 + 2x^2 - 4x < 8$$



Solve the inequality. Then graph the solution set. (Sign chart method)

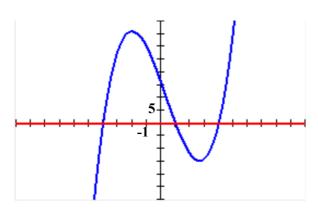
$$x^2 + 3x + 8 > 0$$



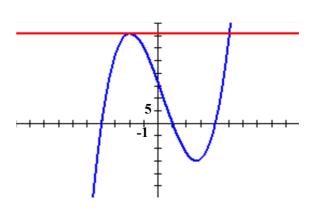
Use a graphing calculator to graph the equation. Use the graph to approximate the values of x that satisfy each inequality.

$$y = x^3 - x^2 - 16x + 16$$





b)
$$y \ge 36$$

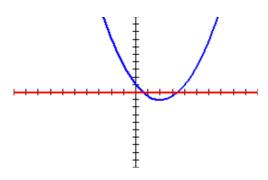


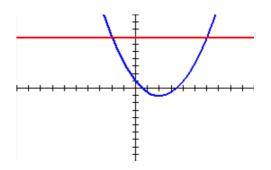
Use a graphing calculator to graph the equation. Use the graph to approximate the values of x that satisfy each inequality.

$$y = \frac{1}{2}x^2 - 2x + 1$$

a)
$$y \le 0$$

b)
$$y \ge 7$$





Section 2.7A

Pg. 185-187: #13-39 odd, 53, 55