

2.7 Nonlinear Inequalities

Name:

Date: June 17, 2013

P 28. Solve

$$2x^3 + 13x^2 - 8x - 46 \geq 6$$

P 32. Solve

$$4x^3 - 12x^2 > 0$$

P 35. Solve

$$(x - 1)^2(x + 2)^3 \geq 0$$

P 41. Solve

$$\frac{4x - 1}{x} > 0$$

P 50. Solve

$$\frac{1}{x} \geq \frac{1}{x+3}$$

P 54. Solve

$$\frac{3x}{x-1} \leq \frac{x}{x+4} + 3$$

P 62. Find the domain of

$$\sqrt{81 - 4x^2}$$

P 64. Find the domain of

$$\sqrt{\frac{x}{x^2 - 9}}$$