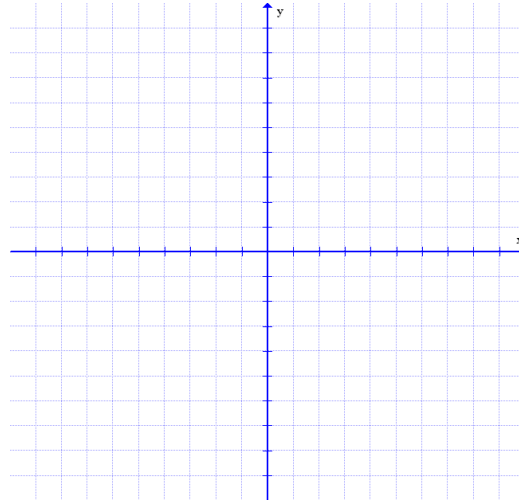


## 1.12 Polynomial Inequalities

e.g.1: Solve  $x^2 - 25 > 0$

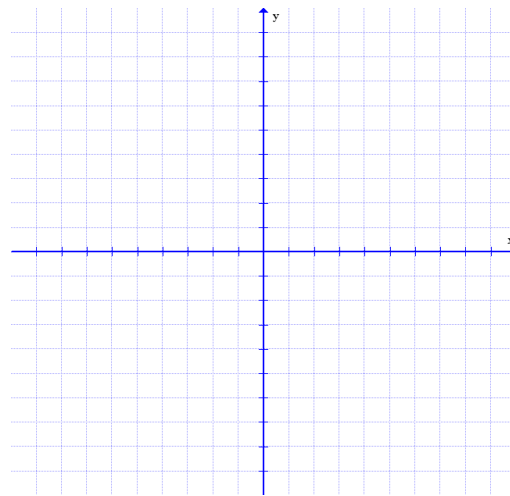
graphically



algebraically

e.g.2: Solve  $(x+1)^2(x-5)(x+3) < 0$

graphically



algebraically

e.g.3: Solve  $-x^4 + x^3 + 17x^2 - 21x - 36 > 0$

e.g.4: Solve  $(x^2-4)(x^2-2x+2) > 0$