









```
x^3 - x^2 - 6x = 0
  24.
              x(x2-x-6)=0
              x = 0 \quad \text{or} \quad x^2 - x - 6 = 0
(x - 3)(x + 2) = 0
   Auguer: \{0,-2,3\}
37. 3(x) = 4x7+5x5+12
  As x + + 0: \( \( \( \) \) + + 0

As x - 2 - 0: \( \) \( \) \( \) \( \) - 2 - \( \)
43. 9(x) = (3-x)(x+2)(x+4)
  As x \to +\infty: g(x) \to -\infty

As x \to -\infty: g(x) \to +\infty

x = x + \infty: g(x) = 0

(3-x)(x+2)(x+4) = 0
                            X=3 or x=-2 or x=-4
                            (3,0) (-2,0) or (-4,0)
```



