

B.3 Solving Equations Algebraically and Graphically

Ex. ① Solve: $x^2 + 3x - 7 = 0$

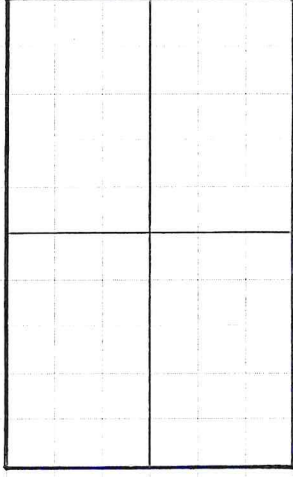
a) Algebraically

(By the Quadratic Formula)

b) Graphically

(By the Graphing Calculator)

Graph: $Y1 =$



Standard Window

$\boxed{2nd}$ \boxed{CALC} \rightarrow \boxed{ZERO}

Left Bound: Close but smaller than

Right Bound: Close but larger than

Ex. ② Solve: $4x^3 + 12x^2 - 8x - 24 = 0$

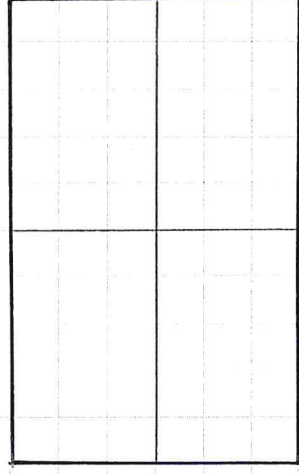
a) By factoring:

b) By graphing:

Graph:

$$y_1 =$$

Solutions:



Window: $[-5, 5] \times [-10, 10]$

Ex. ③ Solve: $\frac{1}{x-3} + \frac{1}{x+3} = \frac{10}{x^2-9}$

a) By algebra: LCD =

Clear fractions:

b) By graphing:

Graph:

$y_1 =$

Solution:

Standard Window