91:- Find all possible asymptotes of sketch the Jinth of the fth
$$f(x) = -\frac{x^2 + 5x^2 - 6x}{x^2 - 1}$$

80 $f(x) = -\frac{x(x-1)(x+1)}{(x-1)(x+1)}$
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Q2:-
$$f(n) = \frac{2n-1}{n^2-1}$$
V.A
$$f(n) = \frac{2n-1}{(x-1)(x+1)}$$

$$VA \qquad x = \pm 1$$

when n=2 y=1

2 (-2) -1

(-2)2 -1

-4-1 -5 4-1 3

n=-2

93: - Find all possible asymptotes disheted the graph of
$$\frac{2n^2+6n-2}{n+1}$$

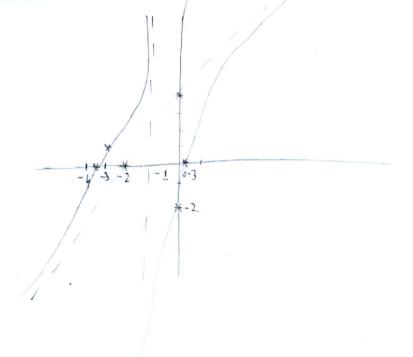
For S.A

$$\begin{array}{c}
2n+4 \\
n+1 \overline{\smash)2n^2+6n-2} \\
\pm 2n^2+2n \\
4n-2 \\
\pm 4n+4 \\
-6
\end{array}$$

$$\begin{array}{c}
x-intercept \\
(-3+\sqrt{13}, 0) \\
4-3+\sqrt{13}, 0 \\
7-intercept \\
(0,-2)
\end{array}$$

$$f(x) = 2x + 4 + \frac{(-6)}{x+1}$$
 Line Intercept
$$x = 0, y = 4$$

$$x = -2, y = 0$$



94:- Does the graph have V-T or V-C at x1=4 y = 514- x1

$$\lim_{h \to 0^{+}} \frac{\sqrt{h}}{\sqrt{h}} = \infty$$

$$\lim_{h \to 0^{+}} \frac{\sqrt{h}}{\sqrt{h}} = \infty$$

947:-
$$y = \begin{cases} -\sqrt{\ln n} & n \leq 0 \end{cases}$$
Graph appears to 1

Graph appears to have v-T at origin. Calculating the lit of difference

$$\frac{f(o+h)-f(o)}{h} = \lim_{h \to 0} \frac{f(h)-f(o)}{h}$$

$$= \lim_{h \to 0} \frac{f(h)-o}{h}$$

$$= \lim_{h \to 0} \frac{f(h)-o}{h}$$

Since the ftn changes behavior at M=0 so we need to calculate one-sided light $h \to 0+\frac{f(h)}{h} = l + \frac{f(h)}{h} = l + \frac{f$

Lince Lit is + 00, so graph has V-T at origin.

96:-Find the asymptotes of draw graphics of fth
$$f(n) = \frac{2n^3 - 4n^2 + 15}{3n^2 - 12}$$

$$\gamma$$
-intercept $(-1.4,0)$
 γ -intercept $(0,-5/4)$

$$V \cdot A$$
 $f(n) = \frac{2n^3 - 4n^2 + 15}{3(n^2 - 4)}$

$$f(n) = \frac{2n^3 - 4n^2 + 15}{3(n-2)(n+2)}$$

$$\frac{2x - 4}{3x^{2} - 13}$$

$$\frac{2x - 4}{3x^{3} - 4x^{2} + 15}$$

$$+ 2x^{3} + 8x + 15$$

$$+ 4x^{2} + 8x + 16$$

$$+ 4x^{2} + 16$$

$$+ 8x - 1$$

S.A
$$\frac{2}{3}$$
 $n - \frac{4}{3}$
Line Intercepts
$$(0, -\frac{4}{3})$$

$$(2, 0)$$

(3,2.2) (-3,-5) (-1,-1) (1,-1.4)

