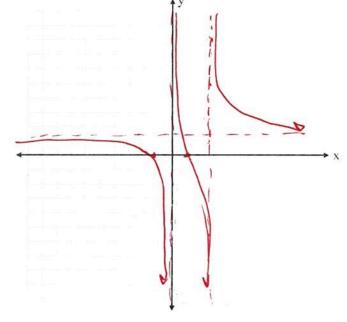
Instructions: Show all work. Use exact answers unless otherwise asked to round.

1. Find any asymptotes (vertical, slant or horizontal), along with any intercepts of the function $R(x) = \frac{3x^2 + x - 4}{2x^2 - 5x}$. Use that information to sketch the graph of the function.

$$(2 \times ... 5)$$
 $VA = \times ... 0, \times ... 92$
 $X = 0 \times ... 95$
 $(3 \times ... 4)(x - 1)$ $x = 1$
 $X = 1$



2. Find any asymptotes (vertical, slant or horizontal), along with any intercepts of the function $R(x) = \frac{x^3+1}{x^2-1}$. Use that information to sketch the graph of the function.

$$R(x) = \frac{1}{x^{2}-1}.$$
 Use that information to sketch to
$$\frac{(x+1)(x^{2}-x+1)}{(x+1)(x-1)} = \frac{x^{2}-x+1}{x-1} = x + \frac{1}{x-1}$$

$$X-1 = x + \frac{1}{x-1}$$

$$X = x + \frac{1}{x-1}$$

$$y-int \frac{0+1}{0-1} = -1$$

