

NameSr.#

**Q1.** Let  $f(x) = \frac{x^2 - 4}{x^2 + 2x}$

- a) Find the discontinuities points and which is removable.
- b) Find the equations of vertical and horizontal asymptotes.

**Q2.** Find the horizontal asymptotes of  $y = \frac{2 - e^x}{3 + 2e^x}$