

- [1] Solve for the horizontal asymptote.

$$y = \frac{3x-7}{8x+5}$$

$$y = \frac{3}{8}$$

- [2] Solve for the vertical asymptote.

$$y = \frac{4x-1}{9-2x}$$

$$x = \frac{9}{2}$$

- [3] Solve for the horizontal asymptote.

$$y = \frac{7x+2}{6-5x}$$

$$y = -\frac{7}{5}$$

- [4] Is this a continuous function ?

$$y = \frac{x^2+7}{3}$$

YES

- [5] Solve for the vertical asymptote.

$$y = \frac{5}{3x+6}$$

$$x = -2$$

- [6] Solve for the vertical asymptote.

$$y = \frac{x-8}{4x+3}$$

$$x = -\frac{3}{4}$$