[1] Solve for the vertical asymptote.

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

$x = -\frac{5}{8}$

[2] Solve for the horizontal asymptote.

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

$y = -2$

[3] Solve for the vertical asymptote.

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

$x = \frac{6}{5}$

[4] Is this a continuous function ?

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

NO

[5] Solve for the vertical asymptote.

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

$x = -\frac{1}{2}$

[6] Solve for the horizontal asymptote.

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

$y = \frac{1}{4}$