

Find all points of discontinuity. Classify each point as a hole or vertical asymptote. Find the horizontal asymptotes.

$$f(x) = \frac{3x}{x^2 - 7x - 10}$$

$$g(x) = \frac{3x^2}{4x^2 - 6x}$$

$$p(x) = \frac{x^3}{2x^2 - 16}$$

$$h(x) = \frac{x^2 - 4x - 21}{x^2 - 5x - 24}$$