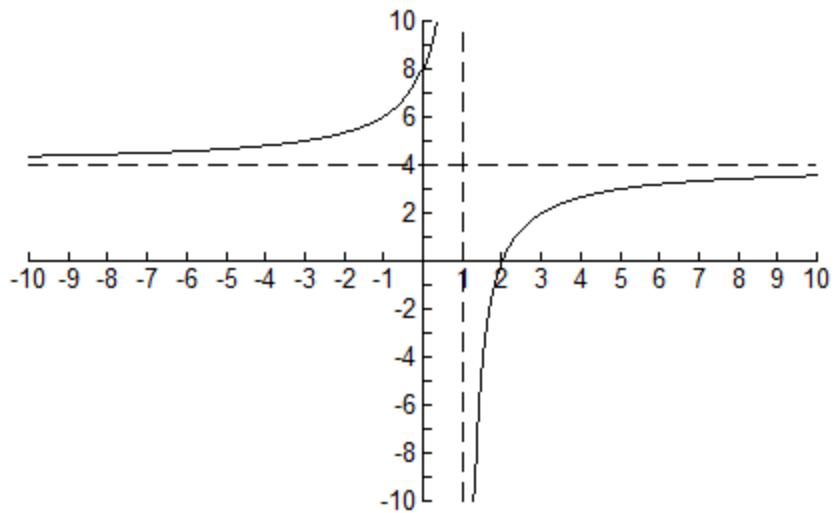Find a possible formula. Use the lowest degree possible.

1. It has a single zero at 2, a horizontal asymptote at $y = 4$, and a vertical asymptote at $x = 1$.

2. It has a single zero at 4, a double zero at -2, a horizontal asymptote at $y = 2$, and a vertical asymptote at $x = 3$.