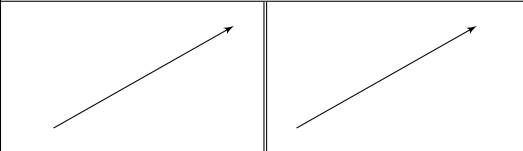


x	$-\infty$	$\frac{-d}{c}$	$+\infty$
$f(x) = \frac{ax+b}{cx+d}$	 <p>The graph illustrates the function $f(x) = \frac{ax+b}{cx+d}$ for $c \neq 0$. It consists of two increasing branches separated by a vertical asymptote at $x = -\frac{d}{c}$. The left branch approaches $-\infty$ as $x \rightarrow -\infty$ and $+\infty$ as $x \rightarrow -\frac{d}{c}^-$. The right branch approaches $+\infty$ as $x \rightarrow -\frac{d}{c}^+$ and $-\infty$ as $x \rightarrow +\infty$. The horizontal asymptote is $y = \frac{a}{c}$, which is not explicitly shown in the diagram.</p>		