



## Rational Functions and Asymptotes - X Asymptote Types to Degree Top and Bottom



### 1 Horizontal asymptote (at zero)

Which numerator and denominator degrees would give this horizontal or slant asymptote?

A	B	C	D
Numerator degree: 2 Denominator degree: 1	Numerator degree: 3 Denominator degree: 3	Numerator degree: 2 Denominator degree: 3	Numerator degree: 2 Denominator degree: 2

### 2 Which numerator and denominator degrees would give this horizontal or slant asymptote?

## Slant asymptote

A	B
Numerator degree: 3 Denominator degree: 2	Numerator degree: 2 Denominator degree: 2
C	D
Numerator degree: 2 Denominator degree: 3	Numerator degree: 1 Denominator degree: 1

### 3 Horizontal asymptote (not at zero)

Which numerator and denominator degrees would give this horizontal or slant asymptote?

A	B	C	D
Numerator degree: 3 Denominator degree: 2	Numerator degree: 2 Denominator degree: 3	Numerator degree: 2 Denominator degree: 2	Numerator degree: 2 Denominator degree: 1