# Finding Slant Asymptotes

Example problem: 
$$f(x) = \frac{x^2 + 9}{x + 2}$$

$$\frac{x^n}{x^m} = \frac{x^2}{x^2}$$

\* the degree of the numerator is 2, which will be n

\* the degree of the denominator is 1, which is m

\* when n>m, there is a slant
asymptote

\* 2>1, so there is a slant asymptote

\* to determine the slant asymptote, divide and ignore the remainder

\* so y=x-2 is the slant asymptote

## Finding Asymptotes Tesccc Key Algebra 2

**Bernard Kolman, Arnold Shapiro** 

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