Evaluating Rational Expressions Answer Key

So, Do We Like Rational Expressions? Yay or Nay?

Evaluate the following rational expressions.

1. $\frac{x^4-6x^3+2x^2+9}{x^2+3x-9}$ at $x=0$

   -1

2. $\frac{x^4-6x^3+2x^2+9}{x^2+3x-9}$ at $x=-1$

   $-\frac{11}{13}$

3. $\frac{x^4-6x^3+2x^2+9}{x^2+3x-9}$ at $x=1$

   $-\frac{6}{5}$

4. $\frac{x^4-6x^3+2x^2+9}{x^2+3x-9}$ at $x=2$

   -15

5. $\frac{x^4-6x^3+2x^2+9}{x^2+3x-9}$ at $x=-3$

   $\frac{258}{9}$

6. $\frac{x^3-4x^2+2x+3}{x^2+4x}$ at $x=0$

   Undefined

7. $\frac{x^3-4x^2+2x+3}{x^2+4x}$ at $x=1$

   $\frac{2}{5}$

8. $\frac{x^3-4x^2+2x+3}{x^2+4x}$ at $x=2$

   $-\frac{1}{12}$

9. $\frac{x^3-4x^2+2x+3}{x^2+4x}$ at $x=-1$

   $\frac{4}{3}$

10. $\frac{x^3-4x^2+2x+3}{x^2+4x}$ at $x=4$

    Undefined