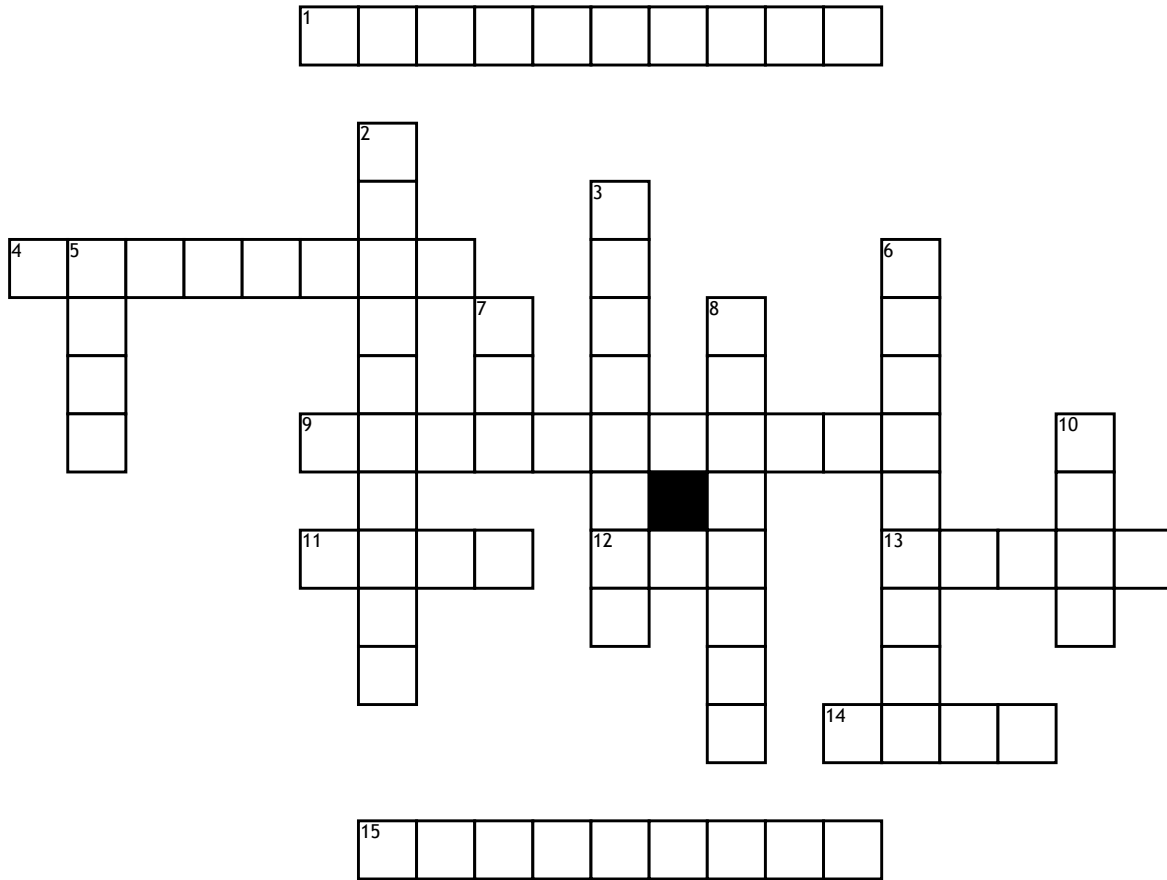


Power Functions/Rational Functions Review



Across

1. The _____ asymptote is found by dividing the leading terms of the numerator and denominator.
4. Zeros and asymptotes dictate the _____ behavior of a function.
9. The _____ dictates a function's long run behavior.
11. A _____ is where the graph intercepts the x-axis.
12. How many asymptotes does $(x+4)/(x-1)(x+2)(x+4)$ have?

13. The function $(x-3)^2/(x+1)(x+3)$ would have a zero at _____.
14. The value of the exponent in a square root function is _____ than 1.
15. At an asymptote or hole, the function is _____.

Down

2. Makes a function "bounce back."
3. As a function approaches a vertical asymptote, it approaches +/- _____.

5. Where the numerator & denominator both = 0.
6. Makes the denominator of a rational function = 0.
7. x^3 , x^{-1} , and $5x/(x-3)$ are all _____ functions.
8. A _____ function is a function that can be written in the form $r(x) = p(x)/q(x)$
10. The ends of an _____ function either both go up, or both go down.