

Chapter 4 Matching Puzzle

1. ax^2+bx+c
 2. $a(x-h)^2+k$
 3. Graph of a quadratic equation
 4. Vertical line that divides parabola into two equal parts
 5. Maximum/minimum point of a parabola
 6. An upward facing parabola has a _ value
 7. A downward facing parabola has a _ value
 8. $x=-b/2a$
 9. When a graph is in vertex form, the vertex can be found as _
 10. The sum of monomials
 11. Highest exponent of all the terms compared
 12. Degree of 0
 13. Degree of 3
 14. As "n" increases in a power function the graph becomes more _
 15. $f(x)=ax^n$
 16. Values that make the function = 0
 17. Can be added to obtain the degree of a polynomial
 18. To find the maximum number of turning points find...
 19. A graph touches the x-axis at a zero with _
 20. A graph crosses the x-axis at a zero with _
 21. If the degree of the numerator is lower than degree of the denominator, then there is a horizontal asymptote of
 22. Number of positive real zeros equals to the number of _ or that number less than an even integer
 23. In the rational zeroes theorem, $p=_$
- A. polynomial
 - B. cubic
 - C. maximum
 - D. multiplicity
 - E. axis of symmetry
 - F. vertex form (quadratic)
 - G. vertical
 - H. degree
 - I. (h,k)
 - J. factors of coefficient
 - K. parabola
 - L. degree-1
 - M. odd multiplicity
 - N. formula for x of vertex
 - O. power function
 - P. $y=0$
 - Q. factors of constant
 - R. factor theorem
 - S. sign variations
 - T. standard form (quadratic)
 - U. minimum
 - V. constant
 - W. zeroes/roots

24. In the rational zeros theorem, $q =$

X. vertex

25. If $f(c) = 0$, then $x - c$ is a factor of $f(x)$

Y. even multiplicity