

Quizlet

NAME _____

19 Multiple choice questions

1. the U-shaped graph of a quadratic function
 - a. maximum
 - b. parabola
 - c. vertex
 - d. hyperbola
2. the turning point of a parabola
 - a. hyperbola
 - b. vertex
 - c. parabola
 - d. model
3. a function in the form of $y = a/x$
 - a. exponential function
 - b. hyperbolic function
 - c. cubic function
 - d. quadratic function
4. a line to which a curve gets very close but never actually touches
 - a. asymptote
 - b. model
 - c. vertex
 - d. hyperbola
5. the section of a curve for which the gradient of the tangent to the curve is positive
 - a. decreasing
 - b. hyperbola
 - c. parabola
 - d. increasing
6. a function in the form of $y = 2^x + c$ for example
 - a. exponential function
 - b. quadratic function
 - c. exponential growth
 - d. hyperbolic function

7. a function in the form of $y = x^2 + bx + c$
- quadratic function
 - cubic function
 - exponential function
 - hyperbolic function
8. a function that is not in the linear form
- hyperbolic function
 - cubic function
 - non-linear function
 - exponential function
9. using mathematics to describe a real-life pattern or relationship
- maximum
 - model
 - vertex
 - minimum
10. the lowest value reached
- maximum
 - vertex
 - minimum
 - model
11. the section of a curve for which the gradient of the tangent to the curve is negative
- parabola
 - increasing
 - vertex
 - decreasing
12. growth whose rate becomes ever more rapid in proportion to the growing total number or size
- initial value
 - exponential function
 - exponential growth
 - proportional to

13. the value at the beginning (when $t = 0$)
a. initial value
b. parabola
c. minimum
d. increasing
14. the highest value reached
a. model
b. minimum
c. parabola
d. maximum
15. a relationship between variables in which a change in one variable results in a direct change in the other variable
a. parabola
b. asymptote
c. hyperbola
d. proportional to
16. the number that relates two variables that are directly proportional or inversely proportional to one another; it is the k in a variation formula
a. non-linear function
b. exponential function
c. constant of variation
d. quadratic function
17. a function in the form of $y = x^3 + c$
a. non-linear function
b. quadratic function
c. hyperbolic function
d. cubic function
18. the graph of a hyperbolic function
a. vertex
b. hyperbola
c. model
d. parabola

19. the value at which a straight line graph cuts the vertical axis

- a. initial value
- b. vertex
- c. decreasing
- d. vertical intercept