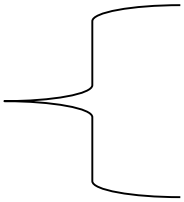
NAME ☺ _____

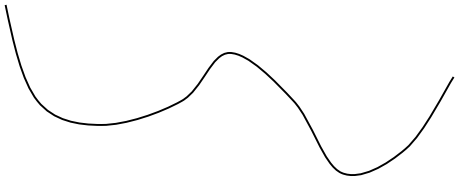
Introduction to Functions

YES or NO: Are these functions?

_____1.

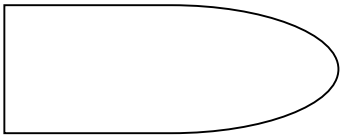


_____2.



_____3.

_____4.



Use these functions for the problems below.

- $f(x) = 3x + 5$
- $g(x) = \sqrt{x}$
- $h(x) = x^2 + 1$
- $k(x) = 9x - 2$
- $m(x) = 12 - x$
- $p(x) = x^2 + 9x + 20$

_____5. Find $f(7)$

_____6. Find $g(16)$

_____7. Find $h(4)$

_____8. Find $k(9)$

_____9. Find $m(3)$

_____10. Find $p(5)$

_____11. Find $f(-3)$

_____12. Find $g(25)$

_____13. Find $h(0)$

_____14. Find $k(-6)$

_____15. Find $m(-2)$

_____16. Find $p(2)$

_____17. Find $f(0)$

_____18. Find $g(0)$

_____19. Find $k(0)$

_____20. Find $p(0)$

_____21. Find $m(0)$

_____22. Find $k\left(\frac{1}{3}\right)$

Use these functions for the problems below.

- $f(x) = 3x + 5$
- $g(x) = \sqrt{x}$
- $h(x) = x^2 + 1$
- $k(x) = 9x - 2$
- $m(x) = 12 - x$
- $p(x) = x^2 + 9x + 20$

_____23. If $f(x) = 26$, what is x?

_____24. If $h(x) = 10$, what is x?

_____25. If $g(x) = 2$, what is x?

_____26. If $k(x) = 61$, what is x?

_____27. If $m(x) = 5$, what is x?

_____28. If $f(x) = -1$, what is x?

_____29. If $h(x) = 50$, what is x?

_____30. If $k(x) = 88$, what is x?

Use these functions for the problems below.

- $f(x) = x + 7$
- $g(x) = 2x$
- $h(x) = x^2$
- $k(x) = 5x + 4$
- $m(x) = 0$
- $p(x) = x^2 + 4x - 5$

_____31. Find $f(7)$

_____32. Find $g(5)$

_____33. Find $h(4)$

_____34. Find $k(9)$

_____35. Find $m(7)$

_____36. Find $p(1)$

_____37. Find $f(-3)$

_____38. Find $g(0)$

_____39. Find $h(11)$

_____40. Find $k(-4)$

_____41. Find $m(1)$

_____42. Find $p(3)$

_____43. If $f(x) = 17$, find x

_____44. If $g(x) = 42$, find x

_____45. If $h(x) = 100$, find x