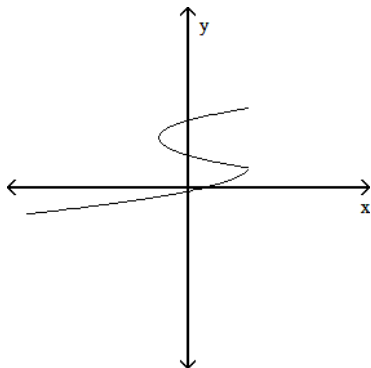


Is the following graph a function? Explain your answer.

1)



1) _____

Determine whether the formula determines y as a function of x .

2) $x = y^2 + 5$

2) _____

3) $y = x^2 + 3$

3) _____

Find the domain of the given function. Describe using interval notation.

4) $f(x) = \frac{x}{x-9}$

4) _____

A) $(0, \infty)$

B) All real numbers

C) $(-\infty, -9) \cup (-9, \infty)$

D) $(-\infty, 9) \cup (9, \infty)$

5) $f(x) = -4$

5) _____

Find the range of the function. Describe using interval notation.

6) $f(x) = (x+5)^2 + 8$

6) _____

7) $y = 8x^5$

A) $[8, \infty)$

B) $[0, \infty)$

C) $[-8, \infty)$

D) $(-\infty, \infty)$

7) _____