2-1 Functions

Name _____

Let f(x) = 3x – 10   g(x) = x^2 h(x) = 2^x
Find each value below.

1.   f(4) = _____   2.   g(-3) = _____

3.   h(3) = _____   4.   f(-10) = _____

5.   g(0) = _____   6.   h(-1) = _____

7.   g(10) = _____   8.   f(-10) = _____

State the domain and range of each function.

9. $\{(2,4),(3,4),(5,7)\}$ 10. $\{(-2,4),(-1,0),(5,7)\}$

Domain = _____   Domain = _____

Range = _____   Range = _____

11. $\{(2,1),(3,4),(3,7)\}$ 12. $\{(3,3),(-1,-1),(5,5)\}$

Domain = _____   Domain = _____

Range = _____   Range = _____

13.   Which of the problems in 9-12 above were functions? _____

The chart below describes the percentage of my house that I had completed painting at the end of each day.

Day	1	2	3	4	5	6	7	8
Percentage Painted	10	15	25	45	70	80	90	100

14.   If P(d) represents the percentage painted after d days, what is P(6)? _____

15.   On what day did I complete the most work? _____