2-2 Composite Functions and Domain

Name _____

Let f(x) = 3x – 2   g(x) = x + 10   h(x) = 5x
Find each value below.

1.   f(g(4)) = _____

2.   g(h(-3)) = _____

3.   h(g(3)) = _____

4.   g(f(2)) = _____

5.   g(f(0)) = _____

6.   h(g(2)) = _____

7.   g(h(10)) = _____

8.   f(g(3)) = _____

State the domain of each function below.

9. $f(x) = \dfrac{4+x}{x}$ Domain = _____

10. $f(x) = 8x - 2$ Domain = _____

11. $f(x) = \dfrac{x^2 - 2}{2x+9}$ Domain = _____

12. $f(x) = \sqrt{x}$ Domain = _____

13. $f(x) = \sqrt{x-3}$ Domain = _____

14. $f(x) = x^2 - 5$ Domain = _____

15. $f(x) = \sqrt{x+8}$ Domain = _____

16. $f(x) = \sqrt{2x-1}$ Domain = _____

17. $f(x) = \dfrac{x-2}{x+7}$ Domain = _____

18. $f(x) = \dfrac{x-9}{x^2 + 4x + 3}$ Domain = _____