Assignment 6

1. For the function \( f(x) \) defined in Figure 1, sketch the function and its derivative, and indicate any critical points or inflection points.

2. For the function \( g(x) \) defined in Figure 2, sketch the function and its derivative, and indicate any critical points or inflection points.

3. For the function \( h(x) \) defined in Figure 3, sketch the function and its derivative, and indicate any critical points or inflection points.

4. For the function \( j(x) \) defined in Figure 4, sketch the function and its derivative, and indicate any critical points or inflection points.

5. For the function \( k(x) \) defined in Figure 5, sketch the function and its derivative, and indicate any critical points or inflection points.

6. For the function \( l(x) \) defined in Figure 6, sketch the function and its derivative, and indicate any critical points or inflection points.

7. For the function \( m(x) \) defined in Figure 7, sketch the function and its derivative, and indicate any critical points or inflection points.

8. For the function \( n(x) \) defined in Figure 8, sketch the function and its derivative, and indicate any critical points or inflection points.

9. For the function \( o(x) \) defined in Figure 9, sketch the function and its derivative, and indicate any critical points or inflection points.

10. For the function \( p(x) \) defined in Figure 10, sketch the function and its derivative, and indicate any critical points or inflection points.

11. For the function \( q(x) \) defined in Figure 11, sketch the function and its derivative, and indicate any critical points or inflection points.

12. For the function \( r(x) \) defined in Figure 12, sketch the function and its derivative, and indicate any critical points or inflection points.

13. For the function \( s(x) \) defined in Figure 13, sketch the function and its derivative, and indicate any critical points or inflection points.

14. For the function \( t(x) \) defined in Figure 14, sketch the function and its derivative, and indicate any critical points or inflection points.

15. For the function \( u(x) \) defined in Figure 15, sketch the function and its derivative, and indicate any critical points or inflection points.

16. For the function \( v(x) \) defined in Figure 16, sketch the function and its derivative, and indicate any critical points or inflection points.

17. For the function \( w(x) \) defined in Figure 17, sketch the function and its derivative, and indicate any critical points or inflection points.

18. For the function \( x(x) \) defined in Figure 18, sketch the function and its derivative, and indicate any critical points or inflection points.

19. For the function \( y(x) \) defined in Figure 19, sketch the function and its derivative, and indicate any critical points or inflection points.

20. For the function \( z(x) \) defined in Figure 20, sketch the function and its derivative, and indicate any critical points or inflection points.