

AP Calculus Ch. 5 Test Topics - Logarithms/Exponentials (7 problems)

1) Given function $f(x)$, find relative min/max/inc/dec/POI/concave up/concave down

2) Particle Motion Problem- Given Position Function, find the following:

- $v(t)$, $a(t)$, intervals moving left/right, inc/dec speed, inc/dec velocity

3 & 4) (2 problems) Find derivatives involving:

- a) Expanding log terms
- b) logs and exponentials of base e and base a
- c) involving product/quotient/chain rule
- d) Find tangent line equation

5) Implicit Differentiation

- Involving log expansion, product/quotient rule

6) Log differentiation

7) Find derivative of inverse at a point