CALCULUS JOURNAL
RECTILINEAR MOTION & NEWTON'S METHOD

1. The mathematical relationship between position, acceleration, and velocity is:

2. Velocity and acceleration found by using the derivative are referred to as _____

    because they find velocity and acceleration at _____.

3. (a) In rectilinear motion, you can determine possible turning points by _____

    _____.

    (b) You can determine what direction an object is moving in by _____

    _____.

    (c) An object will slow down if _____

    and will slow down if _____.

4. To determine the times when an object is speeding up or slowing down:

    1. _____

    2. _____

    3. _____

5. To find the total distance traveled by an object in motion:

    1. Find the object's _____ at all _____ and _____.

    2. _____

6. (a) The purpose of Newton's method is _____

    _____.

    (b) The formula for Newton's method is_____.