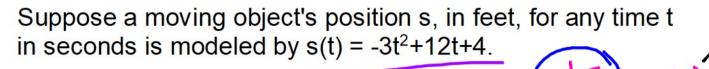
## Good afternoon: Warm up

Suppose a particle's motion is modeled by the differentiable equation  $\underline{f}(t) = \frac{1}{12}t^4 - \frac{5}{6}t^3 + 3t^2 + 4t + 3$  where t is measured in seconds and f is measured

in meters. Find the time(s) when the acceleration is zero.)

AP Packet

Be sure your name is on it
Pass it to the person at your table closest to the door



- 1. When is the object at rest?  $\sqrt{(+)} = 0$
- 2. Is the object speeding up or slowing down at t=3?  $\sqrt{3} = -6 + \frac{1}{3}$ 
  - Via have same diff 51445:
- 3. When does the object change direction?

When the object hits the ground, what is its velocity? (use a calc)

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Whiteboard Math :)

Each group gets a handout problem

Go to a whiteboard spot
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One pen per group (makes for good discussion:))

Work it out!

Next Assessment: Thursday

HW:

motion handout: evens

Monday's hwand cw. derive derivatio handous all