<table>
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<th>Name</th>
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Q1) A particle is moving with a position function \( s(t) = t^3 - t^2 + t + 1 \). At which time its velocity is equal to 9?

Q2) Sand falls from a conveyor belt at a rate of \( 10 m^3 / \text{min} \) on the top of the Conical pile. The height of the pile is always three-eighths of the base diameter. How fast is the height changing when the pile is 4 m high?