Date...... examPle: - iF the Valation between x and t by X=e2+-2e-2+ Provethat V= 4(X2+8) V2-4EX2+87 X F=[4e2+ - 8e-2+7 = 4x x

example 8) Alarge stone is Falling though alayer oF Mud. At time t Seconds, the Jeffh of the Stone in metres below the SurFace theis given by x(+)=2061-e-1) X'(+) = 30 e-1 - negative ع السرعة ايما ها الأعلى على ايما . حربه العرق العلم لا منال X= 20

Date _______No

Date
example 9) AParticle moves in astraight line
it is initially at Yest at the origin the
theaccele Vation of the Particle 15 given X'(+) = 1 Cos 37.
Solution via Joseph Victory X'(+) = 3x \(\frac{1}{3} \) Sin3t +A
$x(t) = \int_{S} \sin 3t + A$
$0 = \int_{0}^{\infty} Sin \circ + A \rightarrow Gi$
9 VH)= \frac{1}{5}:n3+
X(t) = -1 cos 3+ + c - bisis
C = 27 **
Chaptel 1
ZIMI Z