Nama: Andri firman saputra

UTS fisika dasar

NIM : 2010114021125

No

Date

$-5,5 . V_0^2 = -1125$

$V_0^2 = \frac{-1125}{5,5}$

$V_0^2 = 204,545\ m^2/s^2$

$V_0 = \sqrt{204,545\ m^2/s^2}$

$V_0 = 14,3\ m/s$

10. a. $\omega(t) = 3t^2 - 4t + 2$

$\omega(t) = \int 3t^2 - 4t + 2$

$\omega(t) = 6t - 4$

$\omega(2) = 6(2) - 4$
$= 12 - 4$
$= 8\ m/s^2$

b. Posisi sudut $= t^3 - 2t^2 + 2t + \theta$

$t = 1\ s$
Posisi sudut $= 1^3 - 2.1^2 + 2.1 + \theta$
$= 1 - 2 + 2$
$= 1$

$t = 2\ s$
Pos. sudut $= 2^3 - 2(2)^2 + 2.(2) + 4$
$= 8 - 8 + 4 + 4$
$= 8\ rad$