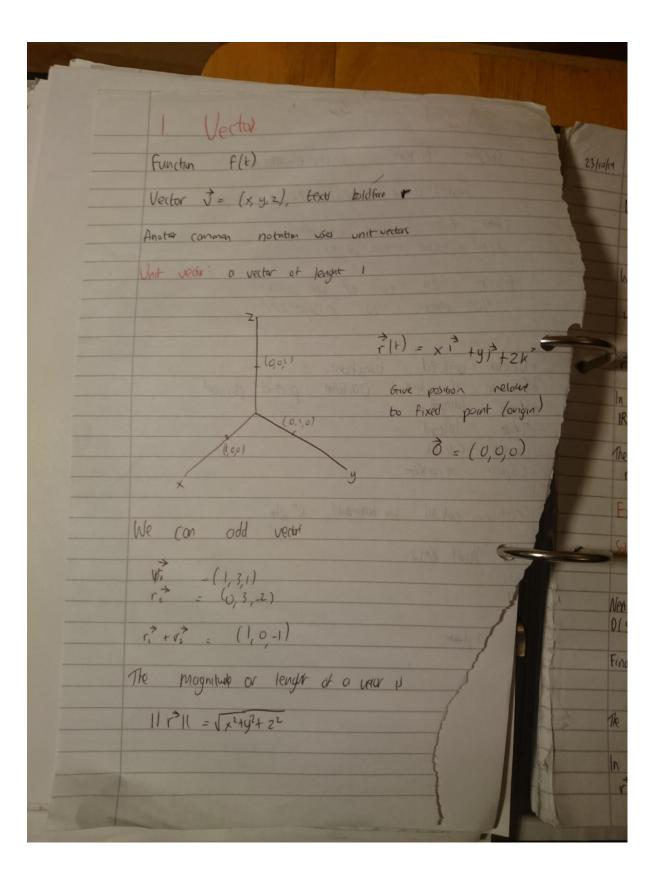
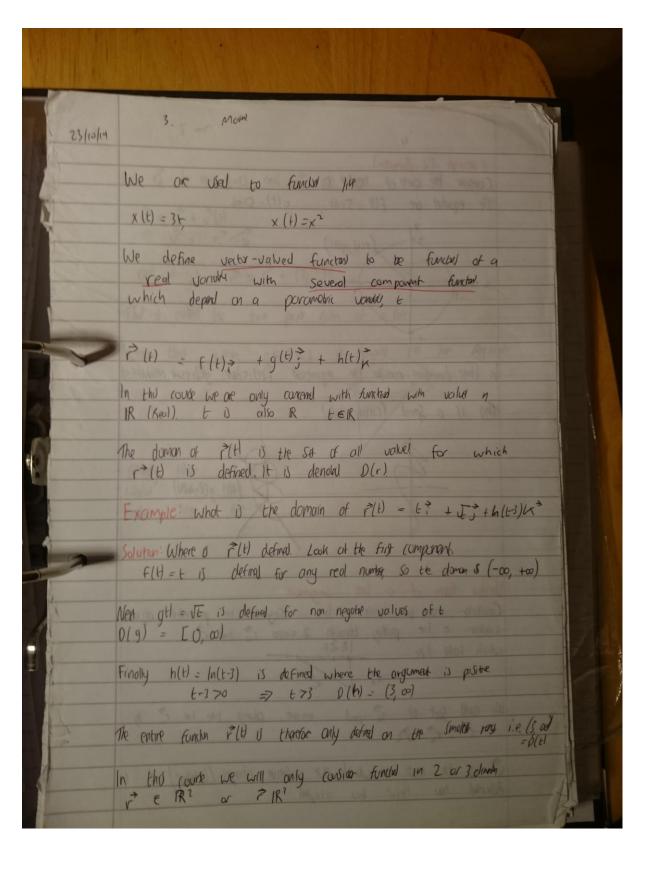
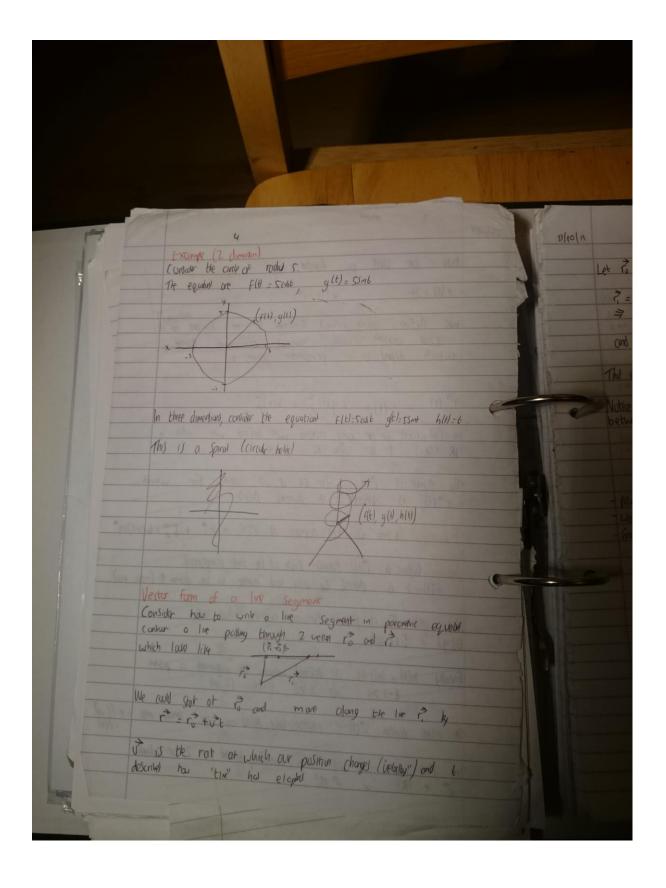
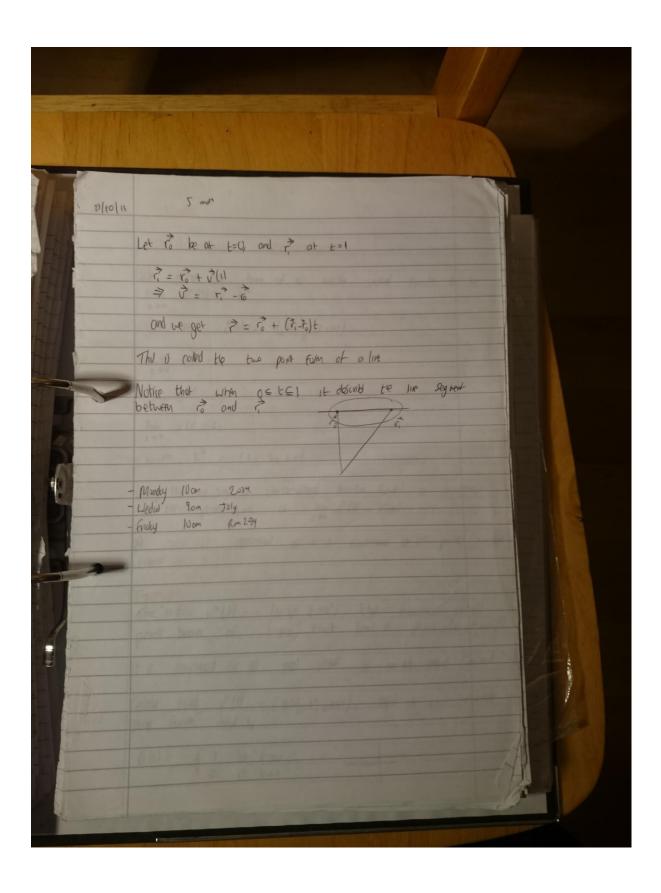
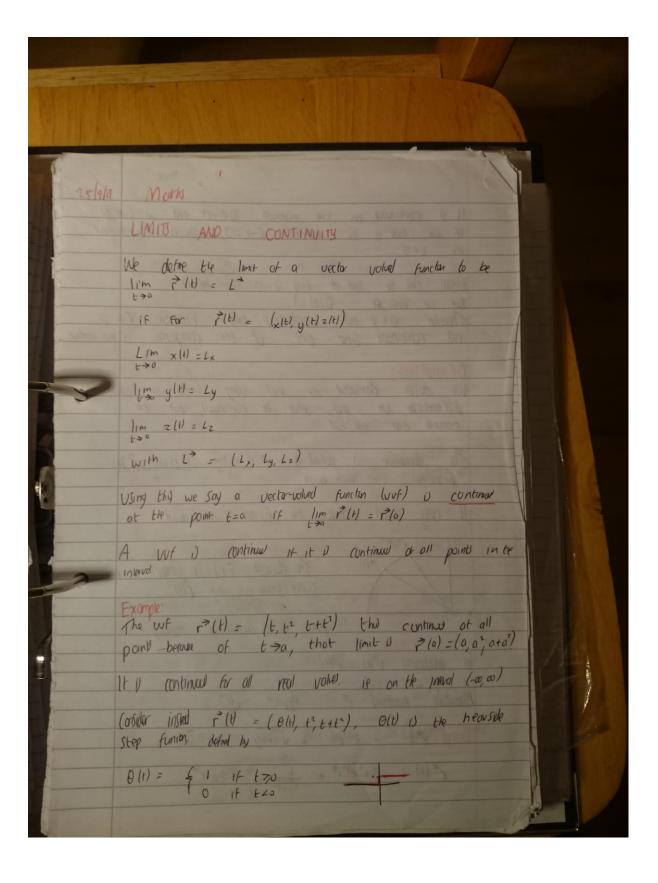
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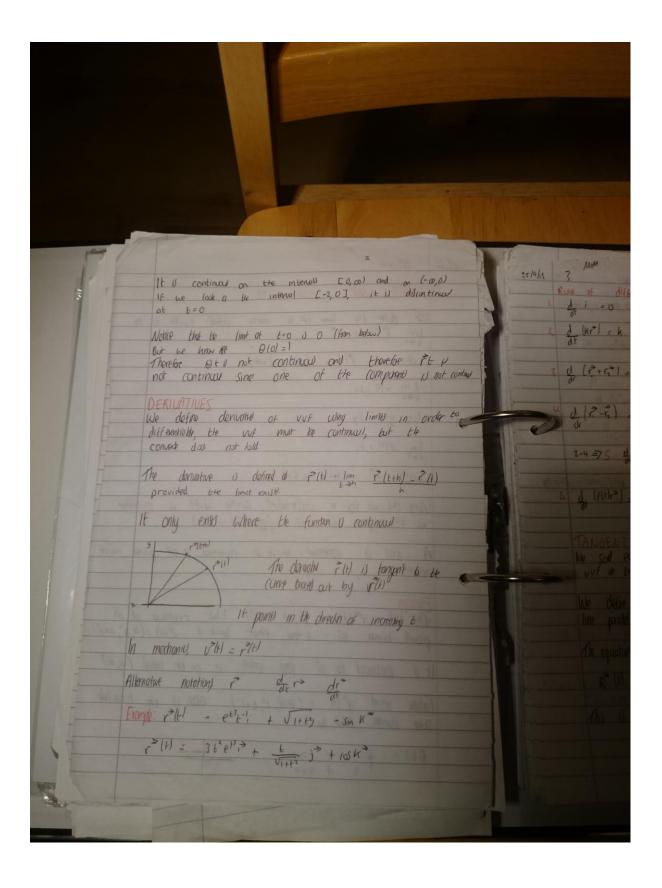


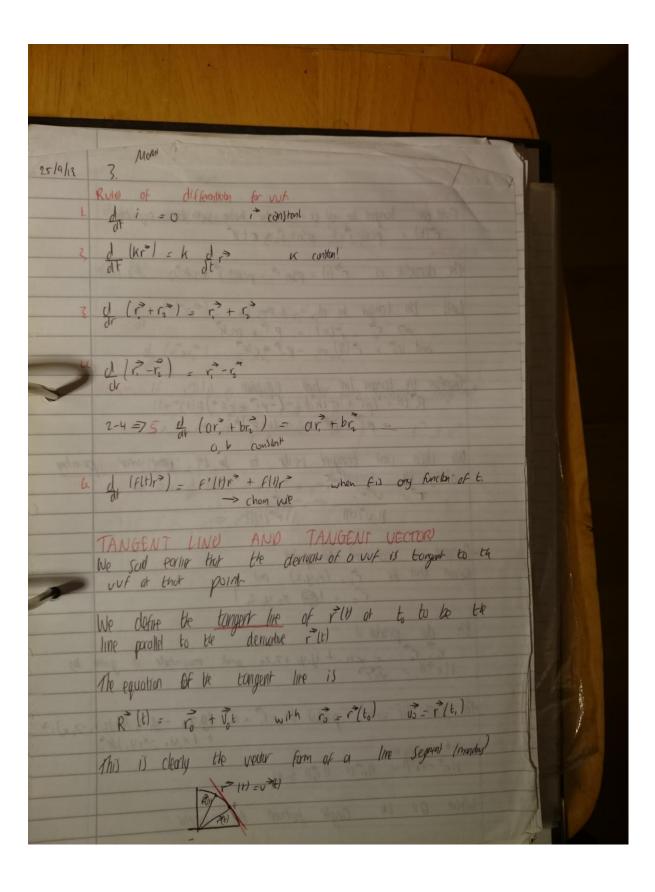


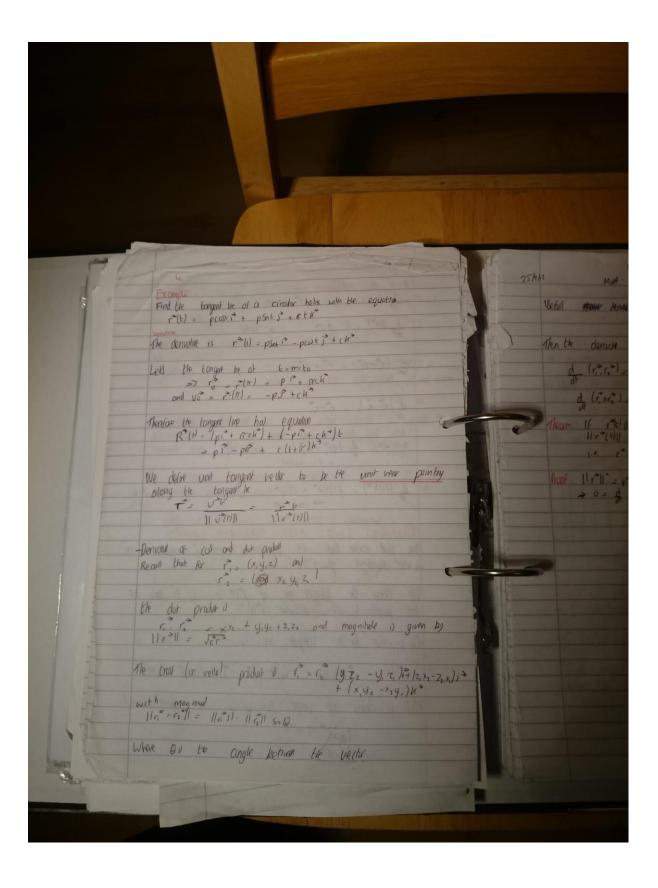








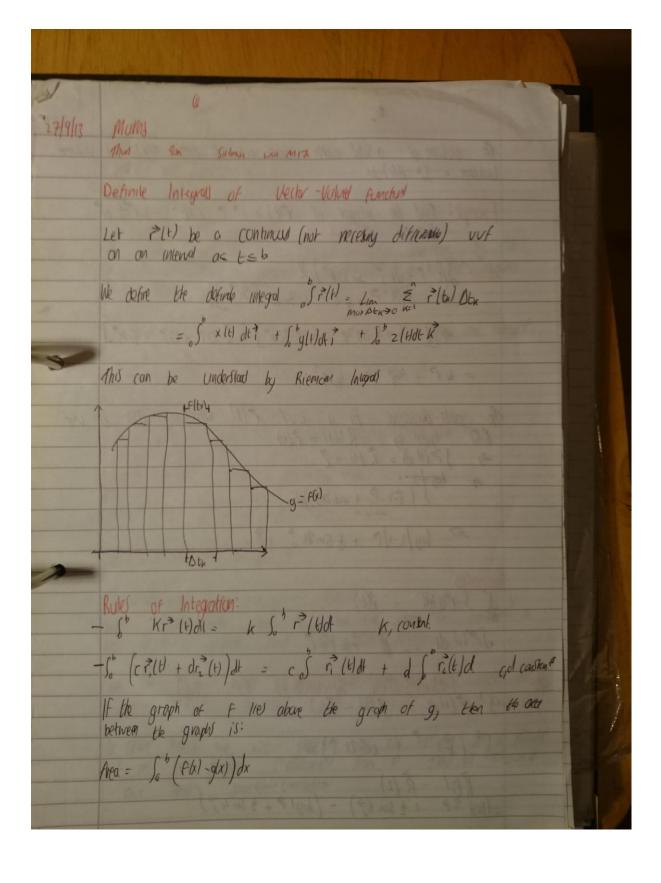


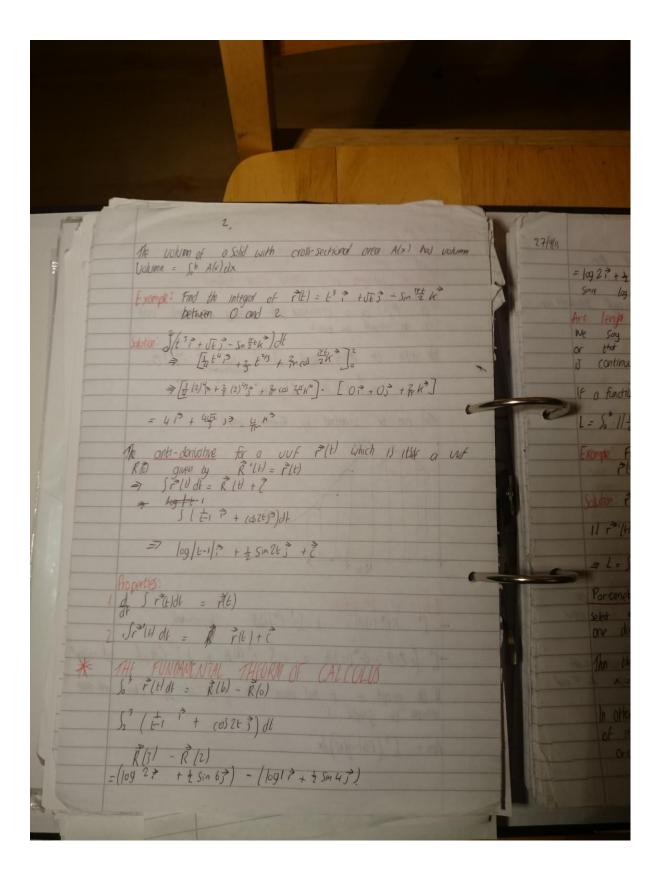


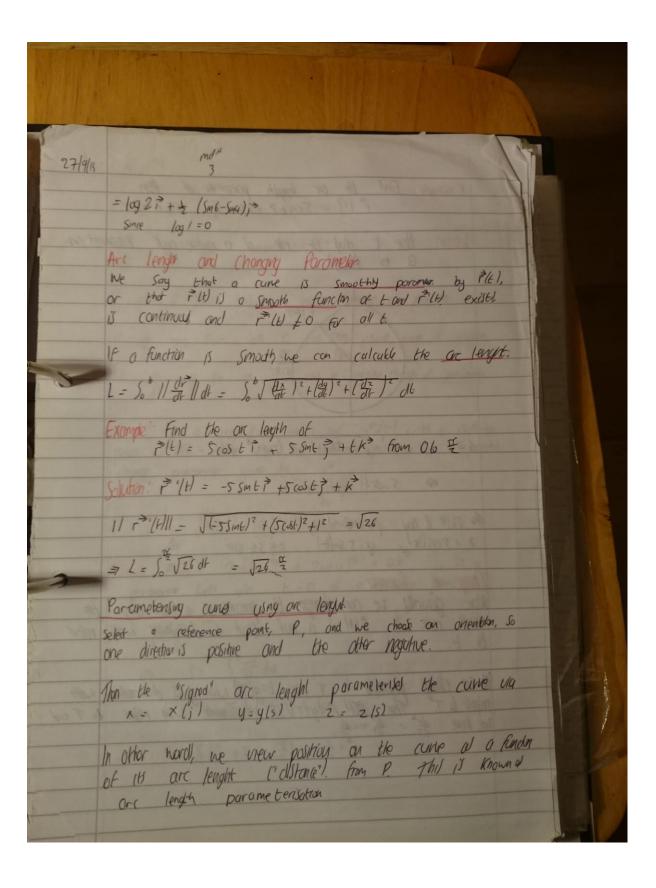
25/9/13 Man -Vsefull promot send to si = risk Then the denich as d (1,5)= 1,5+1,5+ d (r,xr2) = r,xr2 + r,xr2 Theom If rith o real vot with constant magnitude

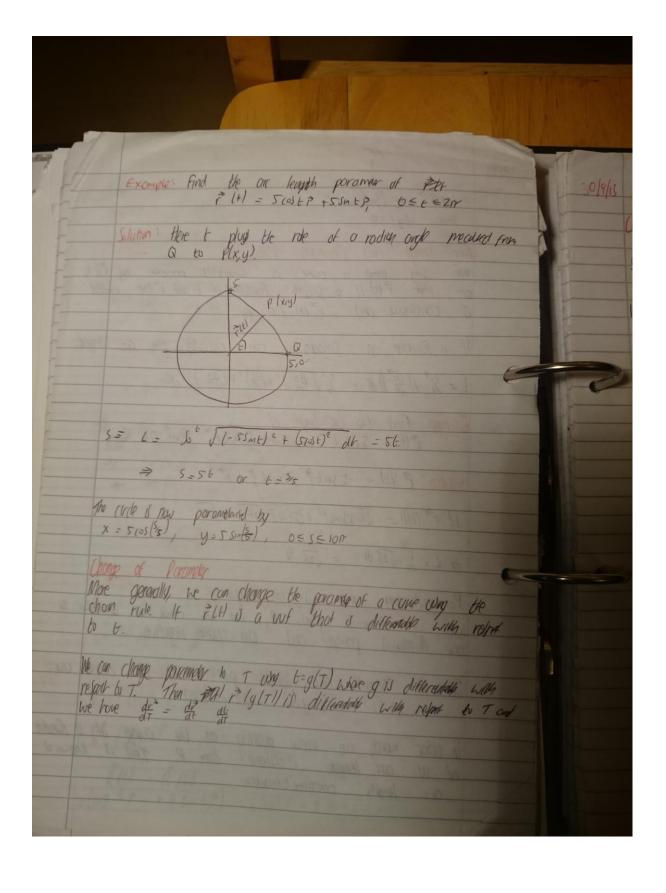
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i.e. ring perpendicular to ring ring ring. hoof: ||r|| = rir + rir









0/9/13 Marns Change of Parameter (continued) $\frac{dr^2}{dt} = \frac{dr^2}{dt} \frac{dt}{dt}$ where t = g(T)IF g(T) is small, this is a small change of paramer. If dt 70 for all T, this is a positio drop of porales If alt < 0 for all T this a negative charge of property. point > (1) a graph of a smooth suf = (t) with a reference point > (to), there the orc length parameter is a positive change parameter, given by $S = \int \left\| \frac{d^2}{du} \right\| du$ - St Star 12 + (dy) 2+ the 12 dy Example: $\vec{r}(u) = 2\cos u \vec{r} + 2\cos u \vec{r} + u \vec{k}$ u is a parameter. Lets use to=0 as a reference point loteran | |dr | = Js ⇒ 5= 5t T5 du = 55 0 = - 556 7(5) = 2005 (\$) 17 +2 SIN (\$) + 5 K*

