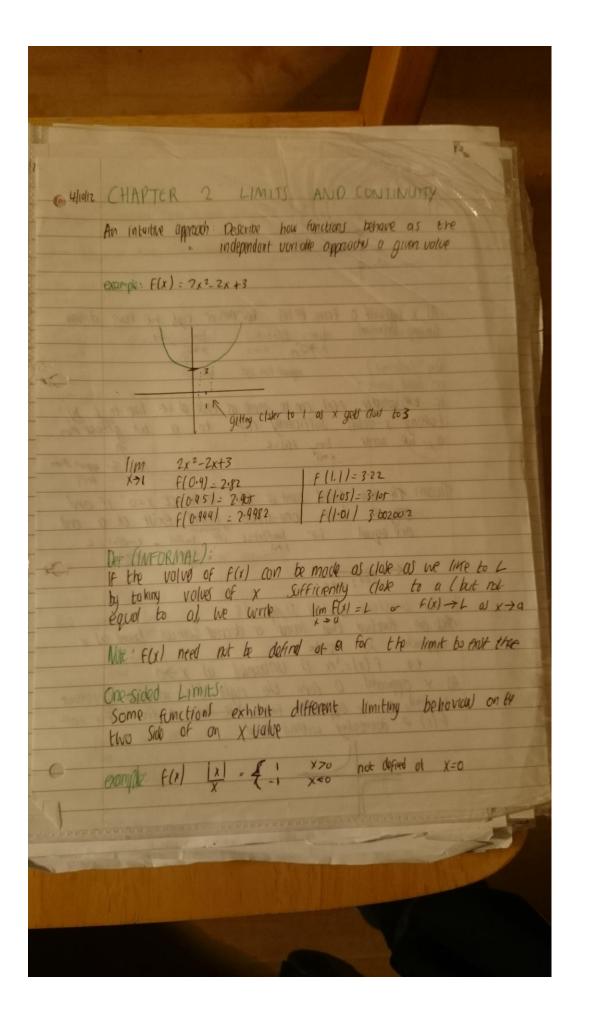
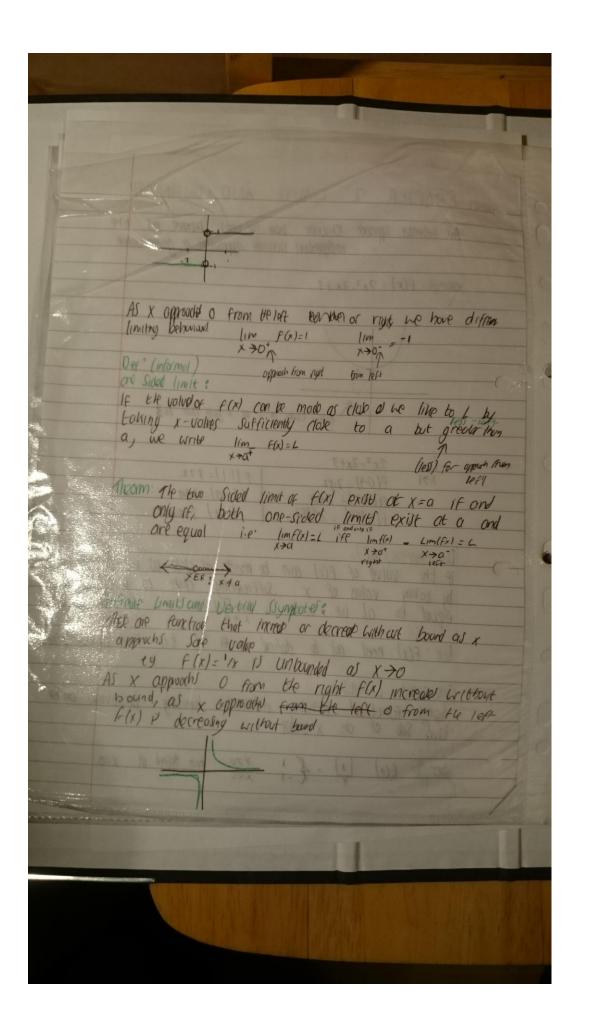
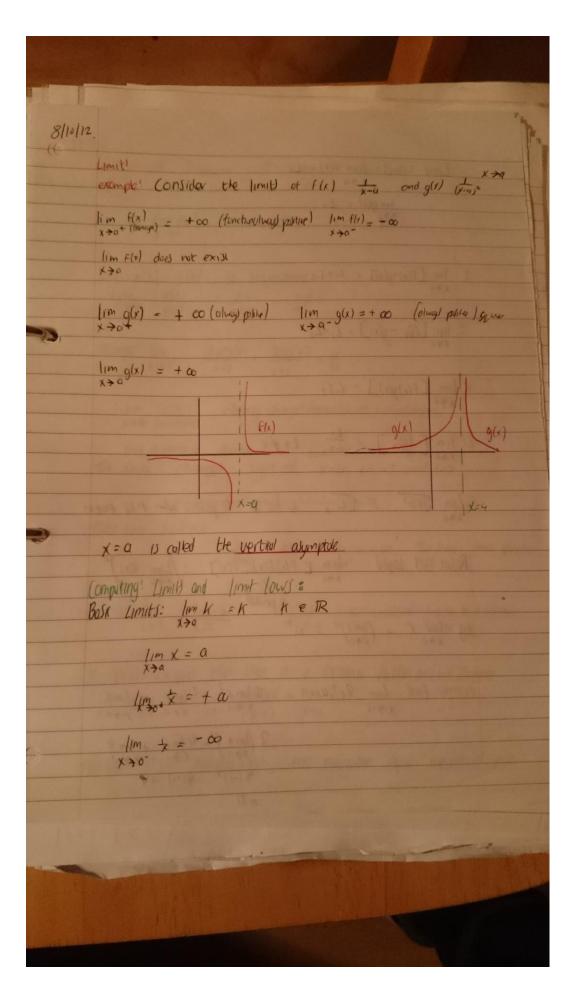
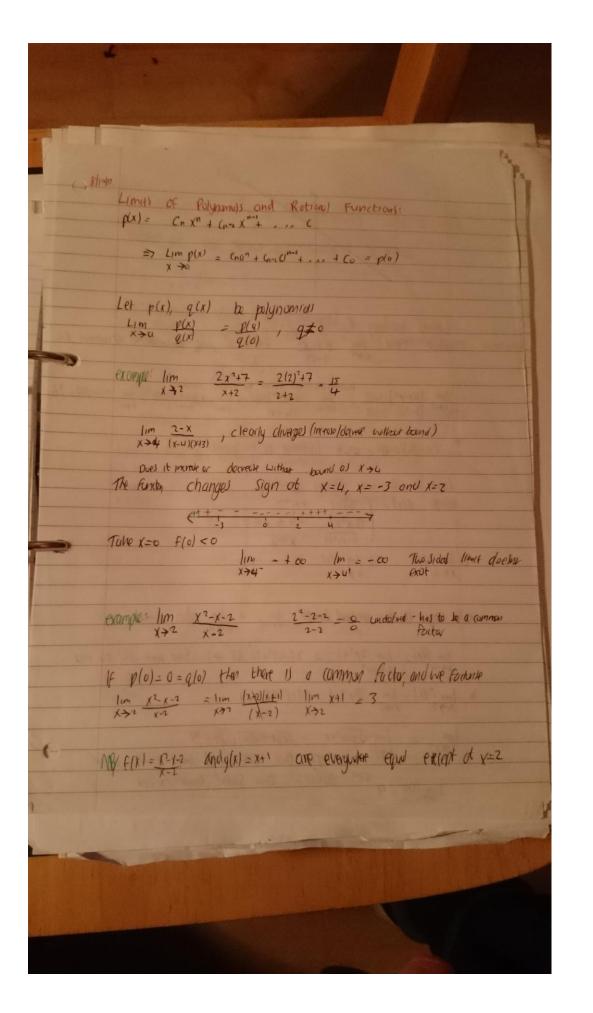
Muhi Sereler 1 (HAPTER ond Limits Continuity

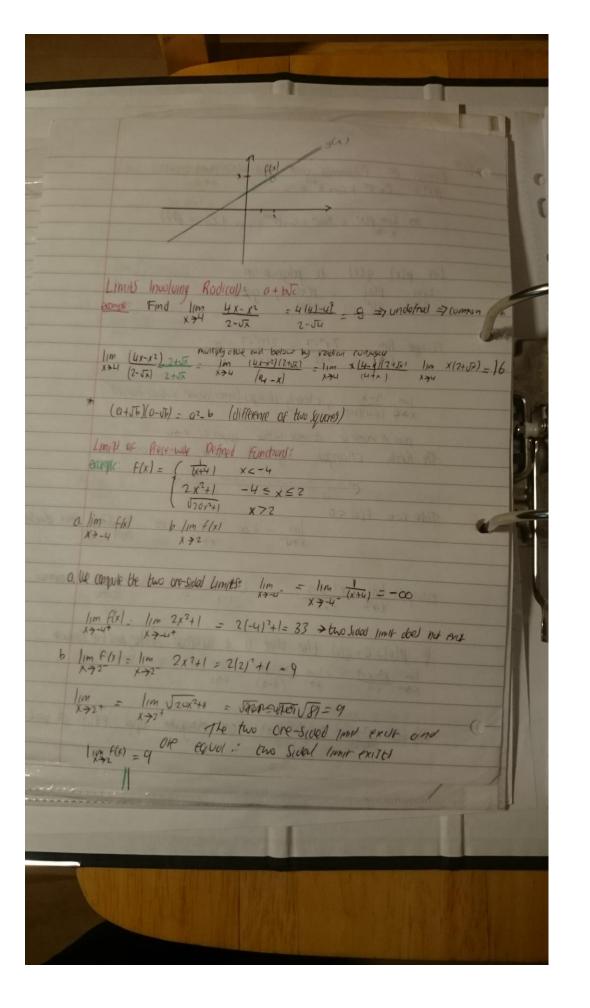


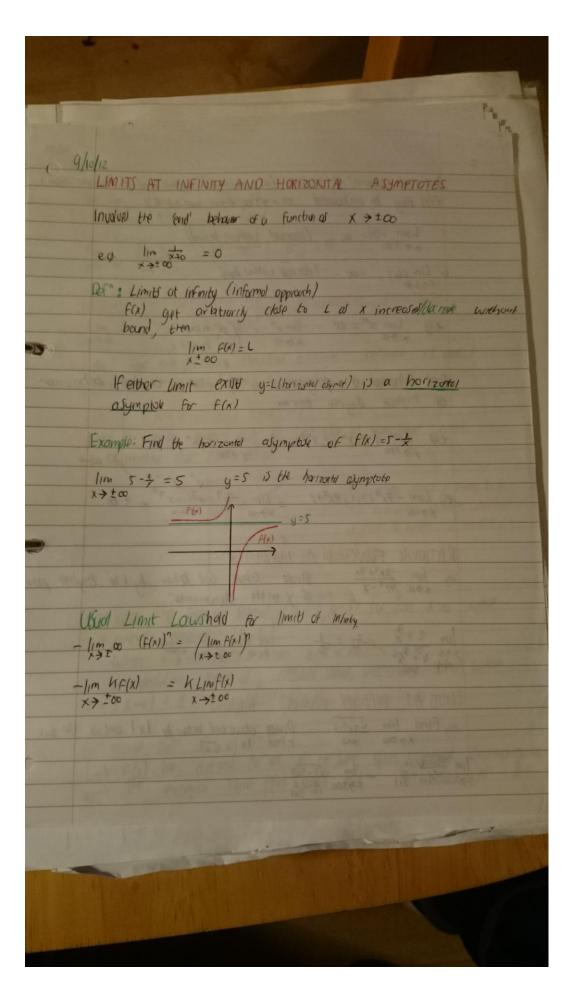


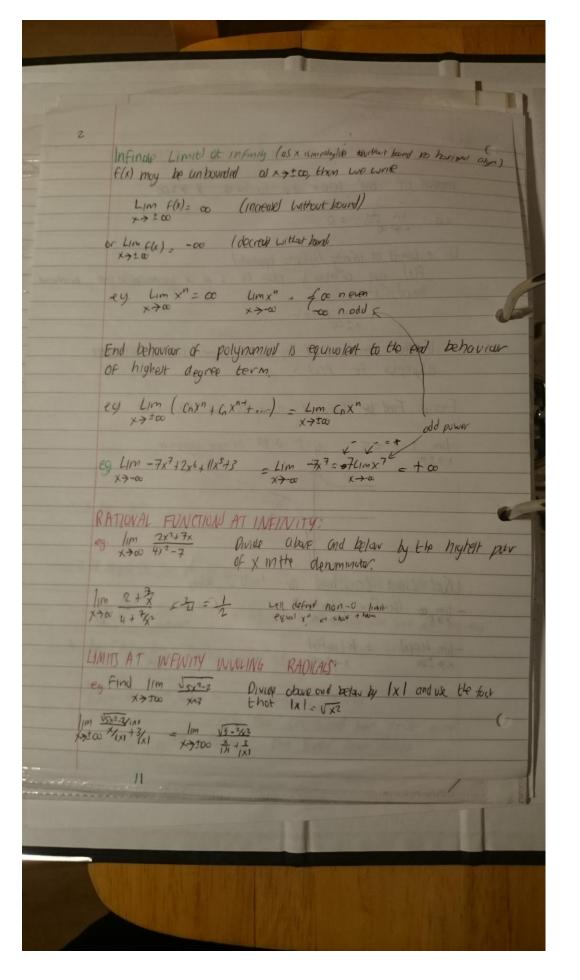


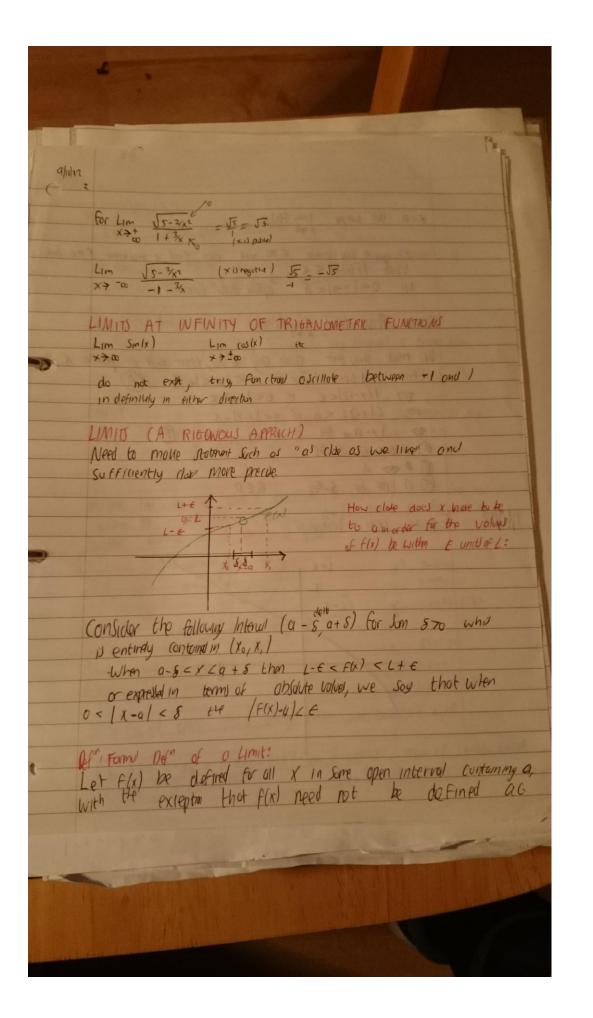
Limit Lows:  $\lim_{x \to a} f(x) = L_1$   $\lim_{x \to a} g(x) = L_2$ 1. lim [f(x)+g(x)] = L1+L2 2 lim [(gg -g(x)] = L,-L2 3 [im [f(x)g(x)] = 4.12 4 lin [ f(x) ] - 12, L2 +0 5 Lim JECT = VI, 4 has to be positive when his even Result (ii) implied 1 m [ f(x).f(x).a.f(x)] = /Lim f(x))" example find Lim 2/3-0x+9 = 2/mx3 -4/mx + /m9
x7-1 x7-1 x7-1 x7-1 x7-1

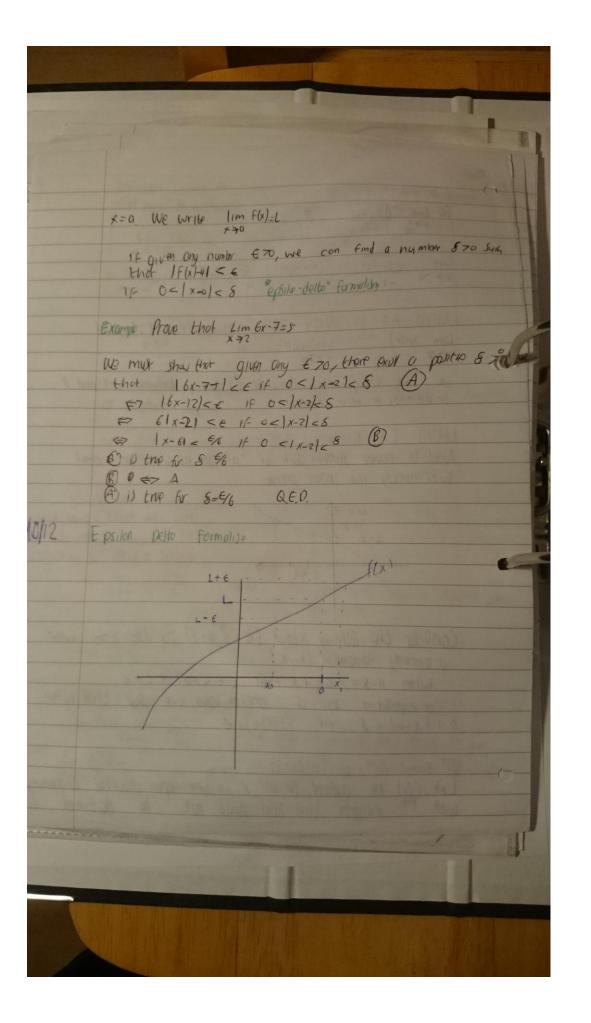


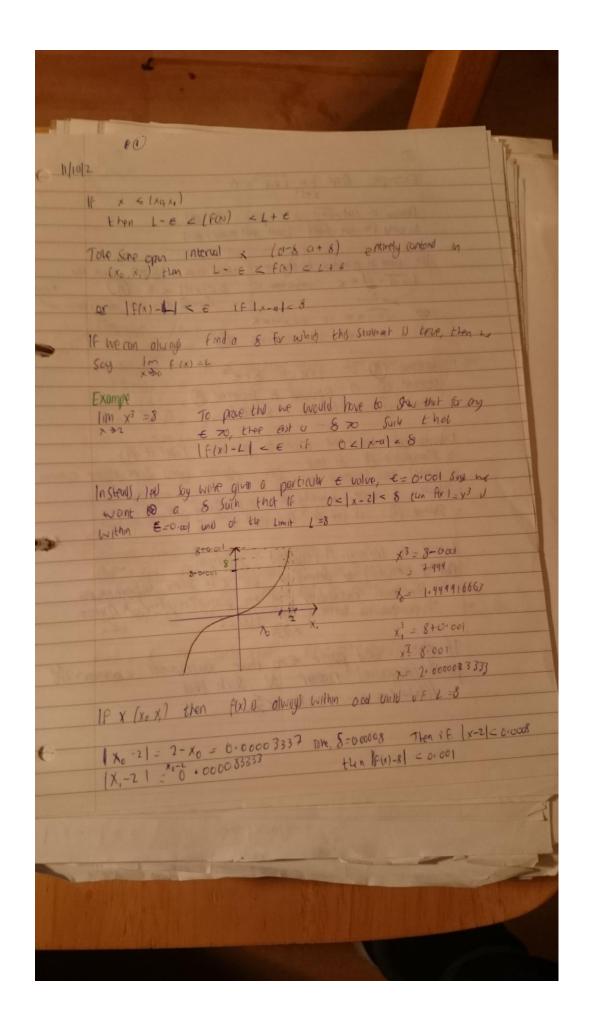


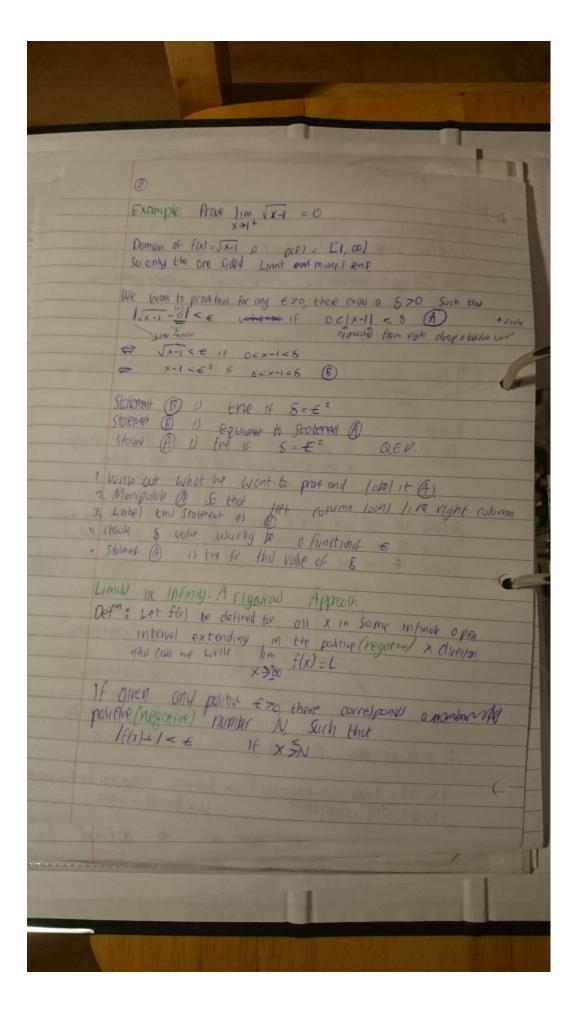


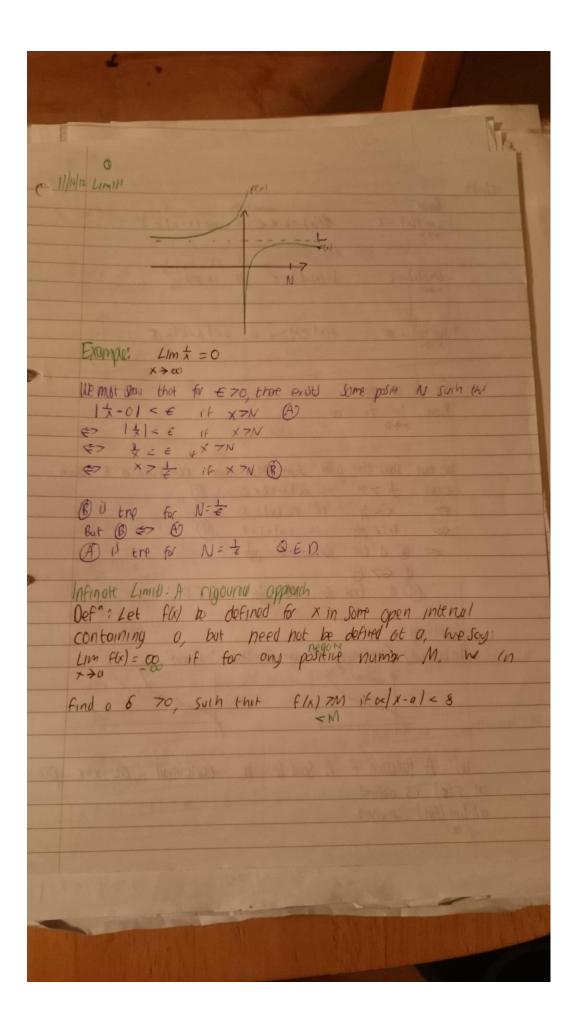


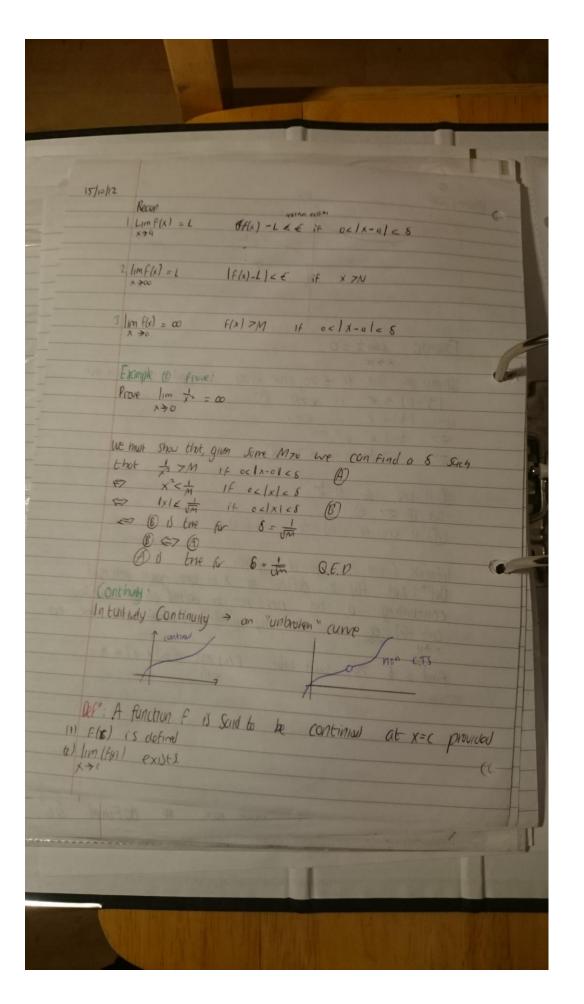


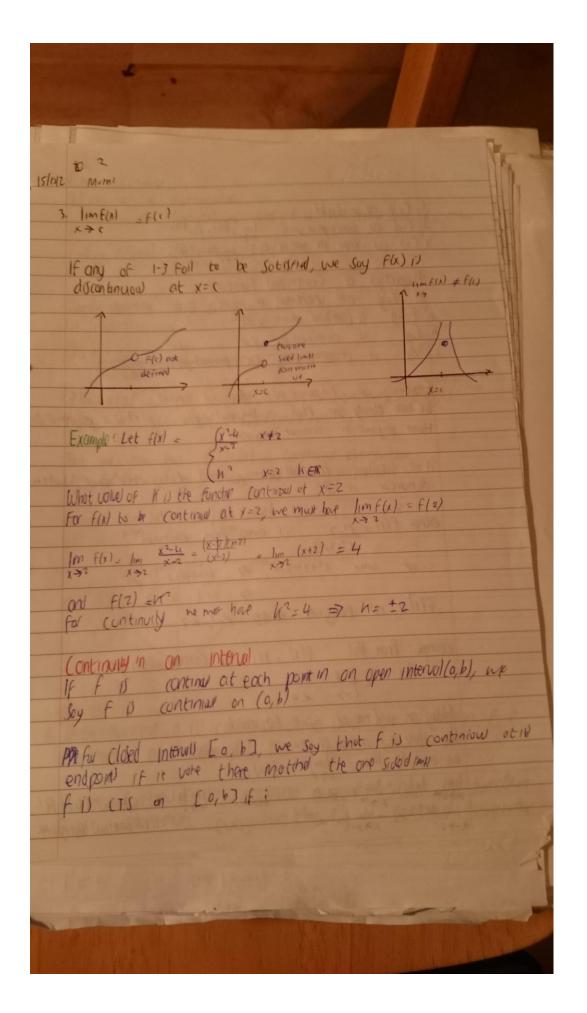


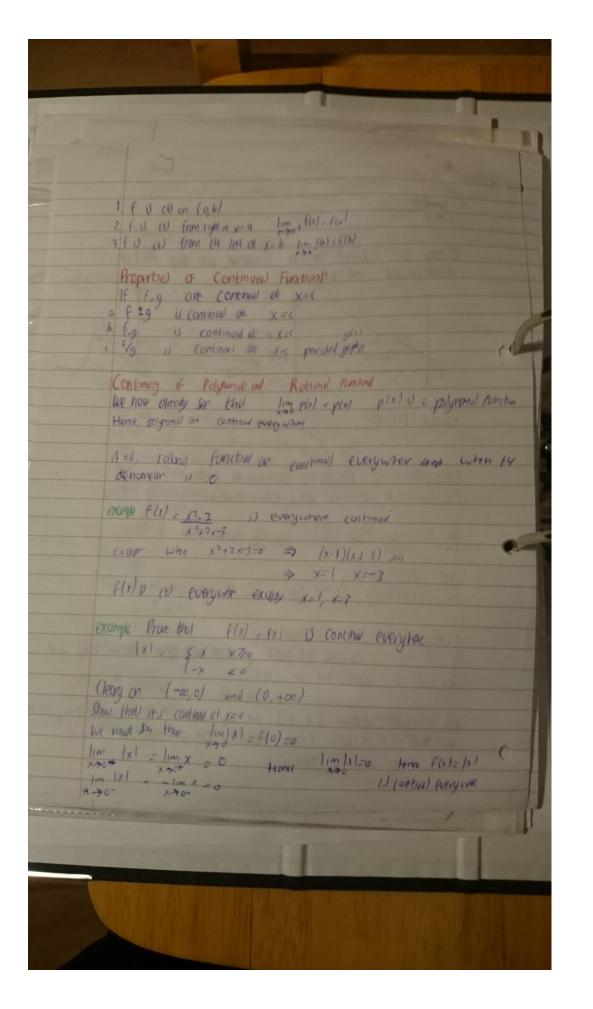


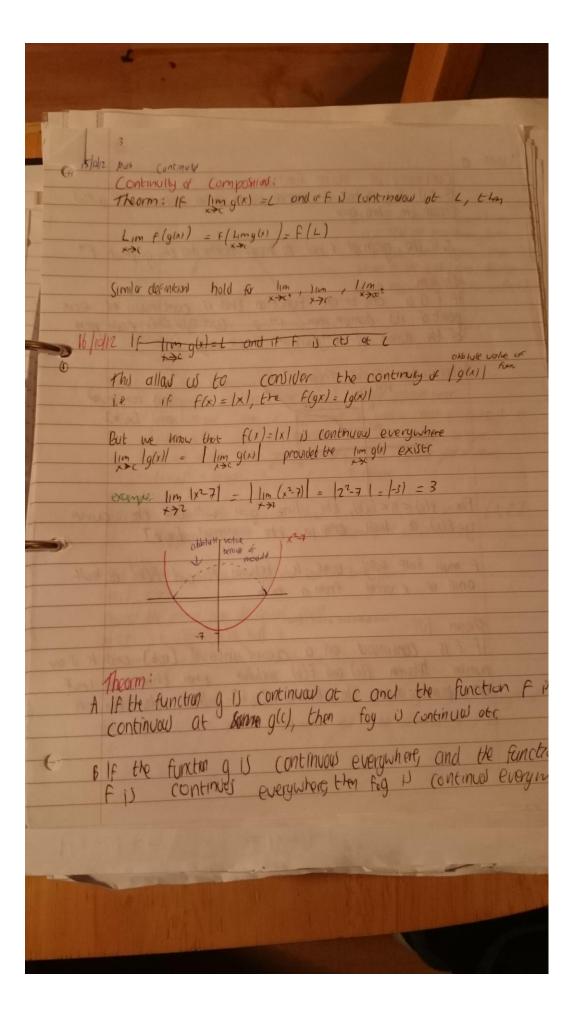


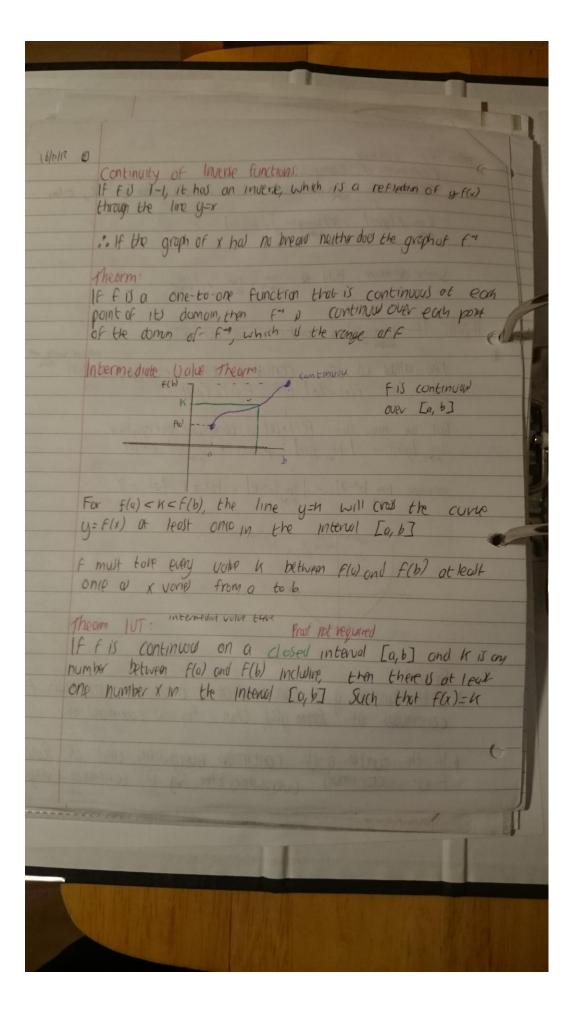


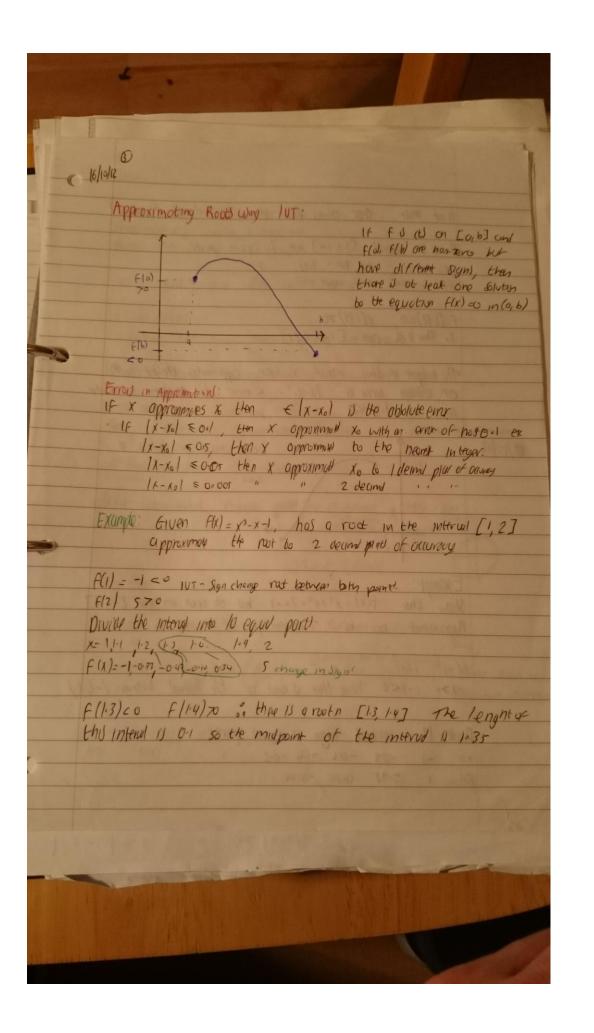


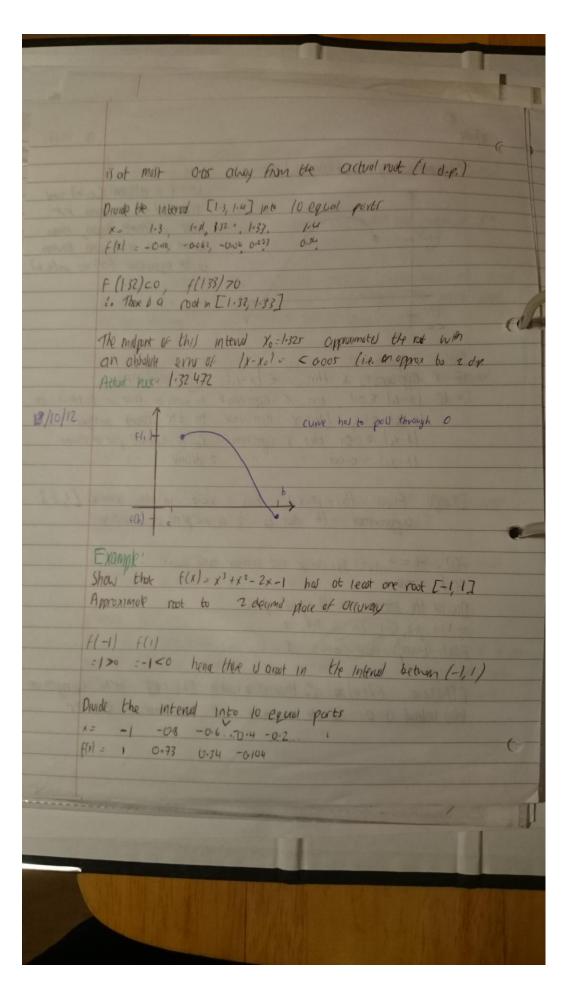


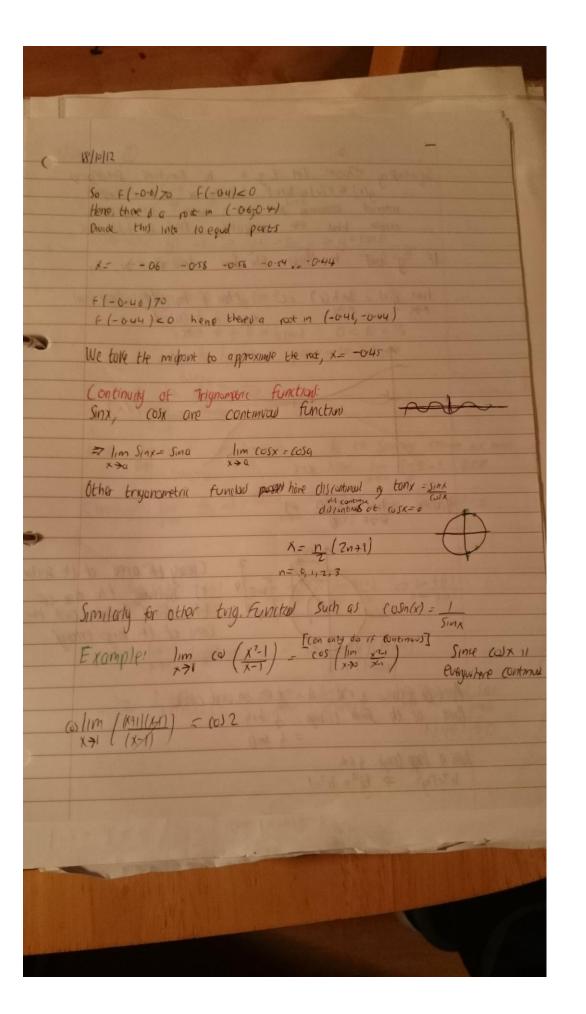


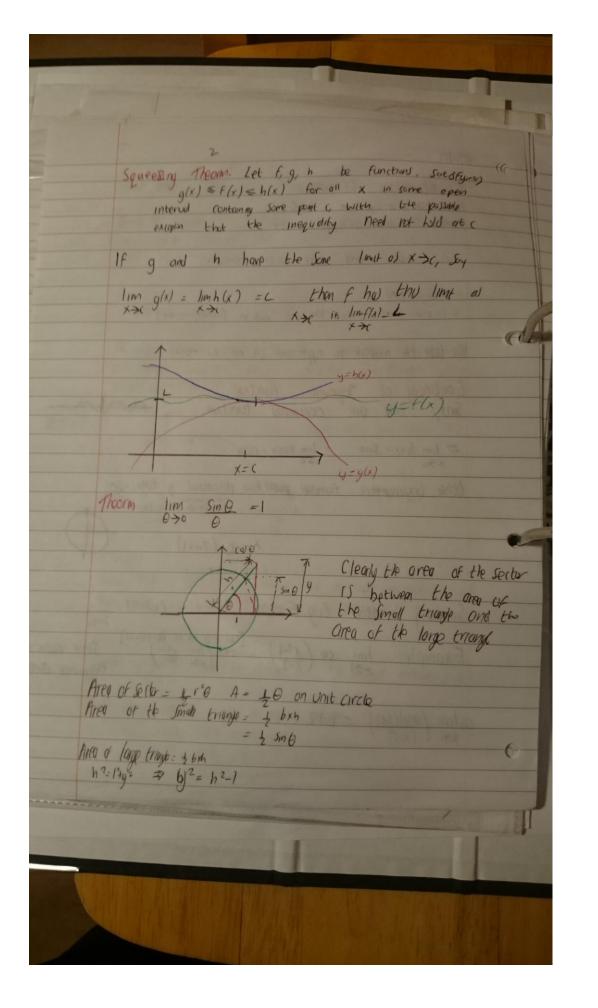












18/10/12 B Sine ruk Sing = 1 = n=9 smo = y2= y2 -1 =7 y2 = 5m20 = y=tan0 5m20 coso oc 0 = 2 Area of lago triangle = 1 ton 0 2 Sinb € 1 0 € 2 tond 0 < 0 < 0€ (x 300) which is positive in the first guidal → 1 € 500 € TOSO 1 7 SIMO 7/050 Since  $\lim_{\theta \to 0} |x| = 1$  and  $\lim_{\theta \to 0} \cos \theta = 1$  by the Squezzay theorem we must have  $\lim_{\theta \to 0} \frac{\sin \theta}{\theta} = 1$  QEP. Corollary: I'm & = 1 I'm sin (h(x)) where h(x) = g(x) = 0 Im sin h(x), h(x) => lim sinh(x) => lim h(x) => g(x) x>0 g(x) x>0 g(x) - lim 1-co2x = lim sin2x = lim sin1 . lim sin1
- xp x(1+cox) = lim sin1 . lim sin1
- toox (1).(0)=0 THE REAL PROPERTY.

