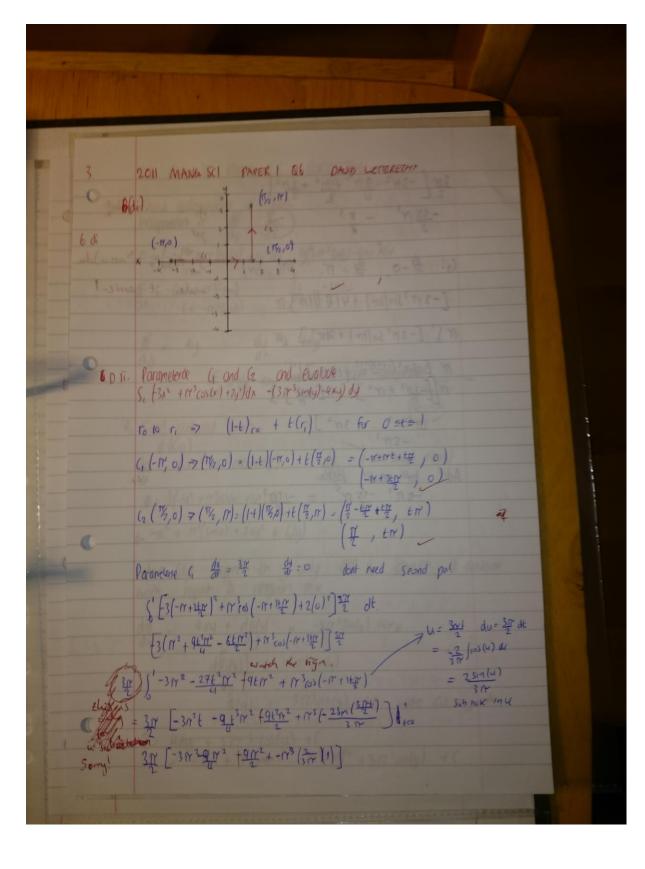
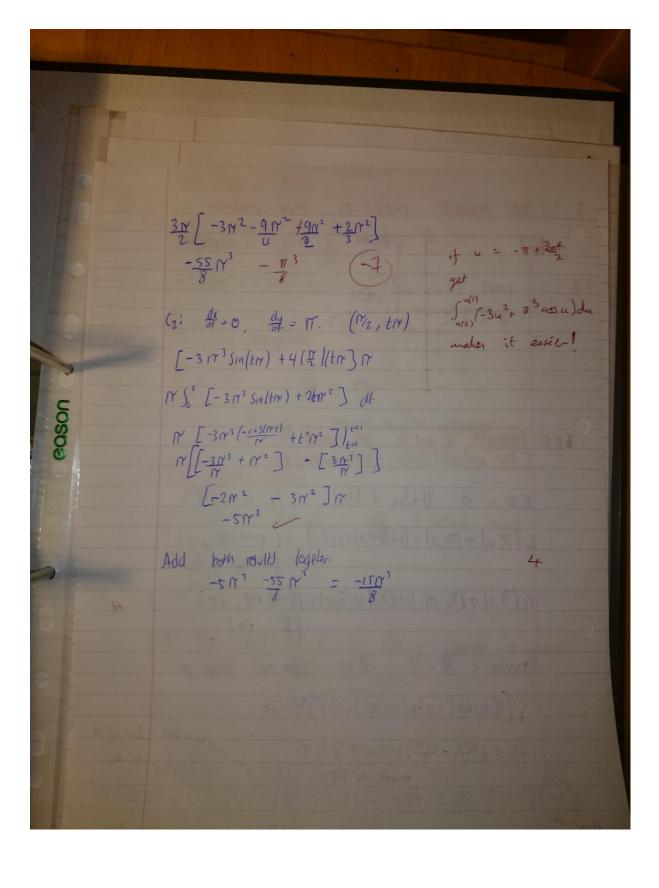
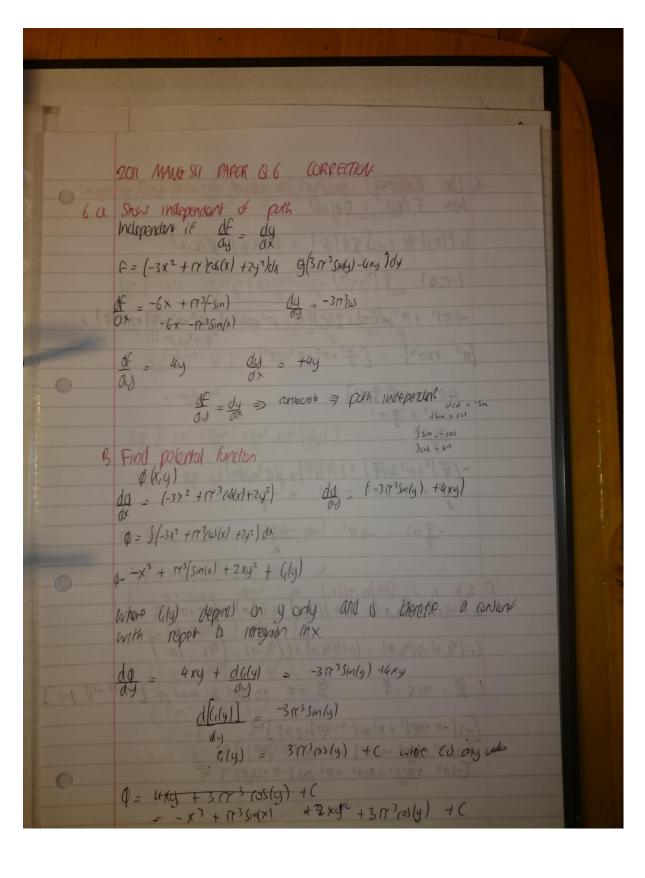


d(a) = -3173 Siny. integral => 3 12 cosy + C where C is any consent =7 0 = -x3+1x351n(x1+2y2x +3x3cos(y)+(.) C. Use the fundamental theorem of line integral to find the volve of the integral When F(xy) = VO(xy) eason Sc F(x,y) dr - 5 00 dr = \$(x,y) - \$(x0,y) (xy, 1= (1/2 +11) (xo, yo)=(-11,0) - (12)3 + 1735m(12) +2(12)(12) +313 (3(11)) - [1-11)3 +113 (11-12) +2(0)2(-11) +3123 (3(11)) - [1-11)3 +113 (11-12) +2(0)2(-11) +3123 (3(11)) - [1-11)3 +113 (11-12) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (11-12) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (11-12) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (11-12) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (3(11)) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (3(11)) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (3(11)) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (3(11)) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (3(11)) +2(0)2(-12) +3123 (3(11)) - [1-11]3 +113 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12) +3123 (3(11)) +2(0)2(-12)  $\frac{15\pi^{3}}{8} - 3\pi^{7} = -\frac{4}{3}\pi^{3}$   $-9\pi^{3} - 4\pi^{3} = -\frac{44\pi^{3}}{8}$ 1) Choose the integration path ( between by points topolod) (17/1), 17 bs he a come firmed from two line segment G and Cz, where G 11 jointy (-1,0) and (17,0) and (68 1. Plat be integration path C, and Show it's orientely on be plot.







( Use Fundamental General of the integral to find value of inagral when F(xy) = Vo(xy) Sc Flag) dr = & VO(dr) = \$(xy1) - \$(xxx) (-17,0) (M, 17) 412-[-7,17] POSON  $-(\frac{\pi}{2})^{3} + n^{3} \sin(\frac{\pi}{2}) + 2(n^{2})(\frac{\pi}{2}) + 3n^{3} \cos(n)$   $-(\frac{\pi}{2})^{3} + n^{3} \sin(\frac{\pi}{2}) + 2(n^{2})(\frac{\pi}{2}) + 3n^{3} \cos(n)$  $-\frac{9}{8}m^3$   $-4m^3 = -\frac{41m^3}{8}$ P 16 b 10 = (1-t) 10 +t(r)
(1 (-17,0) -7 (172,0) = (+t) (-17,0) +t (17,0) - (-17+17+t) 10) (2=("4,0)=)("41") = (1-t)("410) +t ("2111) = (T/2, tr) Light = 17+14 = 17 dy = 0 no need by second por [-17+17+ +ET +0] [-3(-1+341)2+1360(-1+341)+2692]322 [-3(12 + 46, 45 - 35 42) + 41, (0) (-4, 15 7)] 35 [-3(12 + 46, 45 + 46, 42) + 41, (0) (-4, 15 7)] 35