圖 过 社 数 学 作 业 纸

姓名: 和在森 编号:2022010799 科目: Calculus CI)第 1 页 班级: さ十 25 01.7.18 (b) -g(t) (2) g(-t) domain: [-4,0] domain: [0,4] -3 7=9(-1) range: co. 37 range: 1-3.0] (d) 1-g(t) (c) g(t)+3 7=1-94) gct)+3 domain:[-4,0] domain: [-4.0] range: 10,33 + rangeici, 43 (e) g(-t+2) of 914-27 domain: [2,6] [2,5-] - Earlos range = E-3,07.3 range , E-3,0] (3) gu-t) (h)-g(t-4) domain; [1,] domain: [0,4] range = C-3.0]3 range: Eo,3] \$1-2.69 So1. 4=1x2-11 \$1.5.79 (a) fexigex) = - fexigex) so fg is an and function. so tis an odde (c) $\frac{Q(-x)}{f(-x)} = -\frac{Q(x)}{f(x)}$ (d) [fex)] = [f(x)] so \$ is an odd function so firs an even function (G) [DAN] = [-3(x)] = [O(x)] (J) (A) (D(x)) = f(-9(x)) = f(3(x)) so g2 is an even function so fog is an even function. しのうくらっかといっとくらくというしかけっかとx)=fcf(-x))=fcf(x) so gof is an even function so fof is an even function (1) (gog)(-x)=g(g(-x))=g(-g(x))=-g(g(x)) So gog is an and function \$ 1-4.80. Sol Let fun=0. f(x)=f(-x)=0, f(-x)=f(x)=-0=0

So fur=0 is both even and odd.



班级: 计25 姓名: 報 在来水 编号2522010799科目: Calculuc (1) 第2页 P4.6.18 Sol. 27/2 1/2 = 1-1057 = 1-1/2 = 2-13 E1.6.53

Proof is

POTH Plocates

Since PCcosA. SinA) QC105B, sinB).

PQ = [(100A-100B)2+ (5111A-911B)2= [(69CA-B)-1)2+9112(A0B) * \$ (cos A - cos B) + (sinA - sin B) = (cos (A-13)-1) + 1 - cos (A-B) => 2 - 2(cos A cosB + STN ASTNB) = 2 - 2 cos (A-B) => coscA-13) = cosA cosB+ sinAsinB QED.

A1. Sol. 100 (3x) = STN(2x) SIN (3 -3X) = BINCXX)

50 = -3x = 2x - 2kt on = -3x = TV-2x - 2kT, EEZ ⇔ √x = ½ + 2kπ or x = -½ + 2kπ , KEZ ⇔×=花+多kれのx=ぎ+とkれ,k+己

13 the com Since AXETI, 27, X-16E0,17

We have \$ 4x6E1.27,f(x)=2(x-1)+2=2x So fix>= 2x . x = [0,2]

Bonns Exercises:

Sol. 605 3X = 6052X605X - 8TN2X STNX = (21052 X - 1)105X - 2(1-1052 X)105X.

Let X=10, LOS 100 = 41053 10 - 3105 10

Since Al. 105 # = STAP, we have STAP = 41003 12 - 3105 15 ⇒ 2 sint cost = 4 cos 3 to -3 cos to ⇒ 25 m to = 4 (1 - 5 m to) - 3 ⇒ 5 m to = 4 (1 - 5 m to) - 3

25m= 4 ws 7 -3 = 2105 7 -1 $\Rightarrow \frac{5}{\sqrt{2}-1} = 5 \cos \frac{1}{2} - 1$