Assismments & blomit in one single put 110 Ch 5 Antideriverive to Thakur & Prampus. Edu no) file name: <fir & Hlorne last Name polf > 1) Evaluate the upper and Duc: Britath of lott Lower sum for fel = 2+ sinx, o EXEK, with m= 1 (2) Estimate the over under the graph of fox = cosx, " 5x 5x 12 sheeth the curve of rectargles and i) right and points.
Give your commons on the differences ii) loft and points. Defermine the region whose area is equal to the given simple to the given simple of time of the simple of the simp Using max-min inequality estimate the value of the integral (x- sine) de. If f(x) = ex-2, 0 ≤ x ≤ 2, find the Riemann sum with n = 4 Correct to BIX decimal places, taking the sample points to be midpoints. What does the Riemann sum retresent?

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a) \(\left\{ \frac{5\inv}{5\inv} \right) \frac{2\inv}{2\inv} \right) \frac{2\inv}{2\inv} \right) \(\frac{1}{5\inv} \frac{1}{5\inv} \right) \frac{2\inv}{5\inv} \right) \(\frac{1}{5\inv} \frac{1}{5\inv} \right) \frac{1}{5\inv} \right) \(\frac{1}{5\inv} \frac{1}{5\inv} \right) \frac{1}{5\inv} \right) \(\frac{1}{5\inv} \frac{1}{5\inv} \right) \\ \frac{1}{5\inv} \frac{1}{5\inv} \right) \\ \frac{1}{5\inv} \\ \frac{1}{5\i Evaluate, por du

(+++) (Itherita) ii) for dx

(vi) for x dx

(vi) 13 convergent or divergent of 2 dx in) { see's dx 11) Contain tody

1 Find the over of the region between x-axis and the graph (3) Find the over of the region enclosed by 7=2-x2 and the line 3 find the area of the region bounded by the curves of sinx, 4) Find you area & the region bounded by y = &, bounded below y=x, and bounded on the xides by xxxxx x x x x The region enclosed by x-axis and y = 3x-x is revelved about the vertical time x=-1 to generate a holid, find the volume Find the volume of the solid obtained by retaining about young Type a) Trapozoidal rule b) mid-point rule and c) Simpson's

Trule to approximate the given instegral with specified n. 1) Sex dx, n=10 11) Stradx, n=6 iii) Steet dx, n=8 (8) Final the langth of the graph 1) Find the exact of the surface obtained by rotating the curre J&J= X3++ , 1 = x = 4 1) 8 = x3, 0 = x = 2 11) 7 = sin xx, 0 = x = 1 11) x = 30323/2 Ch9 Plane and Space Vectors 1) Find a unit vector in the direction tot = 1+e3-1 2) Frond the angle between the vectors: 1) 1= (3, -1,5), 5=(-2,4,3) 1カオニアナ・オーマド、ちニ リアースド 3) Determine whether the given vectors are orthogonal, parallel 1) 9=(-5,3,7), 6=(6,-8,2) いる=22+6了山庄, 言=32-9了+6下 1) find the directional abines and directional angles of the vectors i) (2,1,2) ii) ?-230-36ma ii) \$1+5+6

Di) A=(316-21) to projection and scalar components. (5) 4=(316,-21, 6=(1,48) ii) 4=233+12, 6=3+28

Find two unit rectors orthogonal to both j-R Find a nonzero yector orthogral to the plane through the points P. a & R and also find the area of triumple PRR. ions 1) P(1,0,1), Q(-2,1,3), R(4,2,5) ii) P(-1,3,1), Q(0,5,2), R(4,3,-1) Hets. (8) Use the Scalar triple product to verify that the vectors はって+5丁-2世、マンスーラ and W=5プ+9ブー4世 are Coplanar. g) find the execution of the plane possing through the points
(2,4,5), (1,5,7) and (-1,6,8) 10) find the distance from the point (1,3,2) to the line 11) Find the distance from the point (2,1,3) to the plane 2x43 +27=4 In) Find the parametric equation for the Line passing through (2,4,6) that is perpendicular to the plane x-y+32=7 13) Find the distance between the given parallel planes 1) 2x-3y+2=4, 4x-6y+27=3 n) 62=4y-2x, 92=1-3x+6y. (4) Find the parametric equation for the tangent time to the helix with perameteric equation, x=2008t, y= sint, 2=t, et (0,1,7/2) 18) Find the length of one turn of the felix to = cost ? + Simily + til. (4) Find the position, velocity and acceleration of a particle in space of the vector valued function P(4) = 2 cost it 3 sint] + 41 = I (13) Find (13) The if The = 2+ 2+ 3+3+ J+ J+ E and the = 74. Find the length of the curve 1) rt) = (+, 3 cost, 3 sint), -5 & + 4 5 (8) Stand work tougent vector 中南三2008年25m13+5年 Find the curvature of the totated cubic (1) = (t, 2, 13) at a general point and at (0,0,0). (19) Show that the curvature if a circle of radius a is a. (20)