

Al-Mustaqbal University / College of Engineering & Technology

Department Of Communication Engineering Class (1st)

Subject (calculus 1) / Code (TE-UOMUS-094241217-574)

Lecturer (M.Sc. Fatimatulzahraa Adnan)

2nd term – Lecture No.5 & Lecture Name (area between two curves)

Area Between Two curves To Find The cerea between the Curves F(x) and g(x) of The iterval [a, b] when we should foldow the Pollowing Steps-F(x) = g(x) = 0ناى دغوة SECX) - SO(A) 20.2 7 Ence title Find The total area of the region between Fx: The Two Curves F(x) = X2 and g(x) = 2x over The interval [-1,2] $2 = 2 \times = 0 \implies X (X = 2) = 0$ F(x) - 9(x) 2=0=>X=2 (neg) or

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2 aven X3 Find the area of the region bounded by $F(x) = x^2$ g(x) and =0 X3 XZ dx 0 Find The total area of the region Fx:-X axis X3 L1.X2+3 Curve interval [0,2 of H =)(X-1)(X-3)- 0 (neg) 3 X3 X 3 Xu 4x3 4 4 .5

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