Ex1: Given two line segments AB, CD of lengths [AB], ICD), construct line segments of lengths [AB]+[CD] and [AB]-[CD] (assuming [AB] > [CD]) measure wy compass.... JAFI = JAB) + LCD |AE| = |AB| - 1001 Q1: suppose we're given a line ségment of length 1. What other lengths can be constructed? (use coordinate geometry). ex: Given a circle, is it possible to construct a square by the same area as the circle? Area = 12 = T 3.1415926... = 7 poly. p(x)

L=JTT ("transervantal" w/ integer (oeff. Area = TTC= T 5. cont construct Ex2: Coastruct on equilateral triangle (a A ABC such that | ABI=18c1=1(A)) - assume given paise AB of triangle. 1AB1=1AC1 & 1AB1=1BC1 - - - | ABI = 18C1=1AC1 ABC is equilatural . Qz: Regular n-sided polygon is a polygon to/ n sides s.t. all sides have same length & all angles are equal (n ∈ N, n ≥ 3). Forwhich n can the regular n-gon be constructed n=3 $\sqrt{n=8}$ n=17 V n=4 V N=9 X N=13 X $n = 5 \checkmark$ U=10 V n=14 X " N-11-X n=15 / n=6/ n=16 / Gavis 1796 h=7 x 2 , n=12 v