23 Jan Barycentric Coordinates f(x,y) GOO = Ax +By+C f(x,y) = Ax + By + C+1P=a+B(6-a)+ & (c-a) rewrite P= (1-B-)a+B(6-a)+&(c-a) = (IBD) a+ BV, + TV2 = (1-B-T) a+ B6+ 8C + ply + The W X+B+8=1

Why is this useful? a point is in Dif 0424 OLBC1 0 6 8 61 e.g 2=1, B=0, 7=0 if value is 1 -on vertex e.g d=.5, b=.5, t=0 if I value is 0 B=1 B=2 fac (x,y) is the line through ac B= fac (x, Y) fas (6x, 67) $Y = \frac{f_{ab}(X_1 Y)}{f_{ab}(C_{x_1} C_{Y})}$ wy fab as Standard form line through AB J=1-8-8