Estimated equation: $\hat{y} = \hat{\beta}_0 + \hat{\beta}_1 b_1(x) + \hat{\beta}_2 b_2(x) \Rightarrow$ -4×+5=0 4x=5 x=5/4 $\hat{y} = 1 + X + (-2)(X-1)^2 I(X=1)$ $\hat{y} = 1 + x - 2(x-1)^2 I(x=1)$ 1+x-2(x-1)2 $=1+x-2(x^2-2x+1)$ = 1 + x = 2x + + x - 2 $\sqrt{-2x^2+5x-1}$ for $x \ge 1$ slope=5-4X slope(x)=5-4X