



$$E_{X} \left[\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right] \times \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right] \times \frac{1}{2} \right] \times \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right] \times \frac{1}{2} \right] \times \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) \right] \times \frac{1}{2} \right] \times \frac{1}{2} \left[\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac{1}{2} \right) - \frac{1}{2} \left(\frac$$

EX[OIX]

exercise 3 T = ((1,3),77), ((2,5),47), ((3,2),55), ((5,5),59),((5,8), 72), ((10,6), 7, 60)Carry out, regression prediction for x1=(8,5), se= (1,3) and bor sc, = (8,5) The rearest reighbour is \$0,0)T with k=1 fet (5) T (6,5) Twill be mapped to 60. Bor 6012 = (1,3), the rearest neighbour 12 (1,3) (in k=1 care) It will be mapped to 77. K=3 Cor xap [8,5), 3 reavent neighbours are (10,6), [5,5), Wence, it will be mapped to 30+59+72=63.67 Ben, 2= (1/3), 3 nearest neighbours are (1/3), (2,5) and (3/2).