

Menghitung E_i

$$E_{i1} = 0,2461 \times 50 = 12,305$$

$$E_{i2} = 0,3362 \times 50 = 16,81$$

$$E_{i3} = -0,2323 \times 50 = -11,615$$

$$E_{i4} = -0,0744 \times 50 = -3,72$$

$$E_{i5} = -0,0116 \times 50 = -0,58$$

Mencari χ^2

$$\chi^2 = \sum \frac{(O_i - E_i)^2}{E_i}$$

$$\chi^2 = \frac{(22 - 12,305)^2}{12,305} + \frac{(16 - 16,81)^2}{16,81} + \frac{(7 + 11,615)^2}{-11,615} + \frac{(2 + 3,72)^2}{-3,72} +$$

$$\frac{(3 + 0,58)^2}{-0,58}$$

$$= 7,6386 + 0,0390 + (-29,8336) + (-8,7952) + (-22,0972) \\ = -53,0484 //$$

Cari χ^2 tabel

$$\chi^2 (\alpha, dk)$$

$$dk = k - 3$$

$$dk = 5 - 3$$

$$dk = 2$$

$$\alpha = 5\%$$

$$\chi^2 \text{ tabel} = 5,99 //$$

Kesimpulan

$$-53,0484 < 5,99, \text{ Maka } H_0 \text{ diterima}$$

Data berdistribusi normal