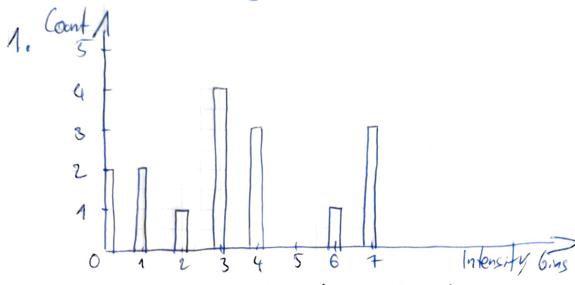


Ratt 6 - Aufagbe 1

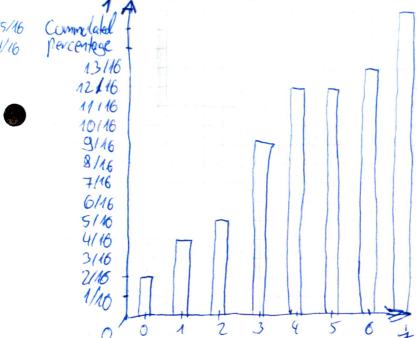


Z.
parcollege 4/16 3116 2/16 1/16 Intensity



Ball 6 Aufgebe 1

3. 4 c(0) = 18 c(1) = 18 + 18 = 14 c(2) = 12 + 16 = 186 c(3) = 18 + 14 = 186 c(4) = 186 + 186 = 187 c(5) = 187 + 0 = 187c(6) = 186 + 186 = 186 c(7) = 187 + 187 = 1



4.

 $m = \sum_{i=0}^{L-1} r_i p(r_i)$

m = 0.3/16 + 1.3/16 + 2.4/16 + 3.4/16 + 4.3/16 + 5.0 + 6.4/16 + 7.3/16 = 55/16

Der Mittelwert auf Basis des normierten Histogrammens beträgt 5516.



Blatt 6 - Aufgabe 1

5.
$$\sigma^2 = \sum_{i=0}^{L-1} (r_i - m_j^2) p(r_i)$$

$$\sigma^{2} = (0 - \frac{5}{8})^{2} \cdot \frac{3}{6} + (1 - \frac{5}{8})^{2} \cdot \frac{3}{6} + (2 - \frac{5}{8})^{2} \cdot \frac{1}{6} + (3 - \frac{5}{8})^{2} \cdot \frac{1}{6} + (4 - \frac{5}{8})^{2} \cdot \frac{3}{6} + (5 - \frac{5}{8})^{2} \cdot 0 + (6 - \frac{5}{8})^{2} \cdot \frac{1}{6} + (7 - \frac{5}{8})^{2} \cdot \frac{3}{6} + (5 - \frac{5}{8})^{2} \cdot 0 + (6 - \frac{5}{8})^{2} \cdot \frac{1}{6} + (7 - \frac{5}{8})^{2} \cdot \frac{3}{6} + (5 - \frac{5$$

Die Vorianz beträcht auf Bosis des normierten Histogramms ungefahr 5,68