

Aufgabe 8

a)

$$0,\bar{3} = 0,333333$$

$$0,34 = 0,340000$$

$$0,33 = 0,330000$$

$$0,33 < 0,\bar{3} < 0,34$$

b)

$$0,1\bar{6} = 0,166666$$

$$0,\bar{16} = 0,161616$$

$$0,168 = 0,168000$$

$$0,\bar{16} < 0,1\bar{6} < 0,168$$

c)

$$0,11 = 0,110000$$

$$0,\bar{1} = 0,111111$$

$$0,1\bar{0} = 0,100000$$

$$0,1\bar{0} < 0,11 < 0,\bar{1}$$

d)

$$0,143 = 0,143000$$

$$0,\overline{142857} = 0,142857$$

$$0,1428 = 0,142800$$

$$0,1428 < \overline{0,142857} < 0,143$$

e)

$$0,8\bar{6} = 0,866666$$

$$0,86 = 0,860000$$

$$0,\bar{8}6 = 0,868686$$

$$0,86 < 0,8\bar{6} < 0,\bar{8}6$$

f)

$$1,01 = 1,010000$$

$$1,0\bar{1} = 1,011111$$

$$1,\bar{0}1 = 1,010101$$

$$1,01 < 1,\bar{0}1 < 1,0\bar{1}$$