

Übung 7

a) $M(-1|-1)$ $m = \frac{3}{4}$ $|AB| = \sqrt{64+36} = 10$ 3

b) $\frac{y-2}{x-3} = \frac{y+4}{x+5} = \frac{2+4}{3+5} = \frac{-4-2}{-5-3}$
 $y-2 = \frac{3}{4}(x-3)$ $\frac{y+4}{x+5} = \frac{3}{4}$
 $y = \frac{3}{4}x - \frac{1}{4}$ $3x - 4y - 1 = 0$
 $\frac{3x-4y-1}{\sqrt{9+16}} = \frac{3x-4y-1}{5} = 0$

c) C in HNF $d = \frac{|3 \cdot 2 - 4 \cdot 4,5 - 1|}{5}$
 $d = \left| -\frac{25}{5} \right| = 5$ 1

d) $C(-2|4,5)$ $m = \frac{3}{4}$ $\frac{y-4,5}{x+2} = 0,75$
 $y = \frac{3}{4}x + 6$ 2

e) $C(-2|4,5)$ $m = -\frac{4}{3}$ $\frac{y-4,5}{x+2} = -\frac{4}{3}$
 NK: $-\frac{16}{6} + \frac{27}{6}$ $y = -\frac{4}{3}x + \frac{11}{6}$ 2

