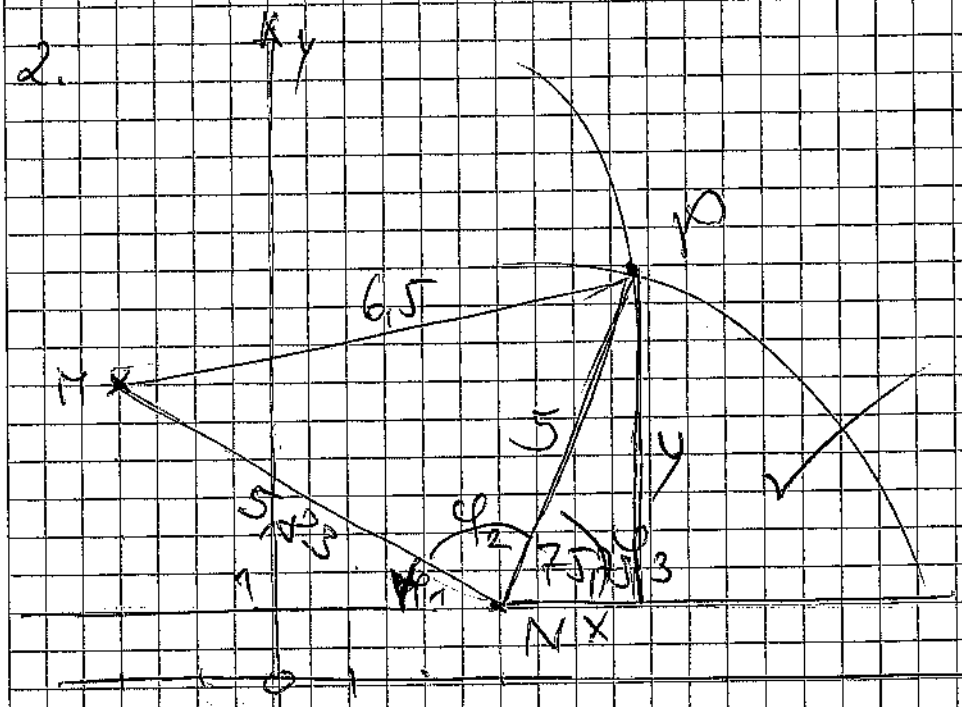
2.



$\overline{MN} = \sqrt{5^2 + 3^2} = \sqrt{34} = 5{,}83$ ✓

$m = -\frac{3}{5} = \tan\varphi_1$ ✓ $\varphi_1 = +30{,}96°$

$\varphi_1 = -30{,}96°$ ∨ $\varphi_1 = 149{,}03°$

(7+1)

$\cos\varphi_2 = \frac{6{,}5^2 - 5{,}83^2 - 5^2}{-2 \cdot 5{,}83 \cdot 5} = 0{,}2823$

$\varphi_2 = 73{,}31°$ ✓

$\varphi_3 = 180° - 30{,}96° - 73{,}31° = 75{,}73°$

$x = 4{,}23$ ✓

$y = 4{,}84$ ✓

$P(4{,}23 \mid 5{,}84)$

✓ ✓