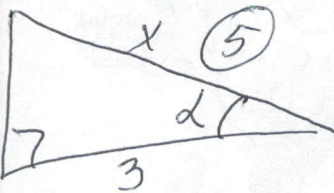
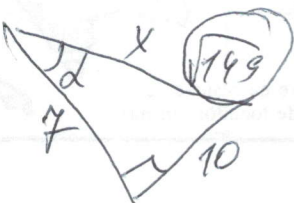


Реш к8 21.10.

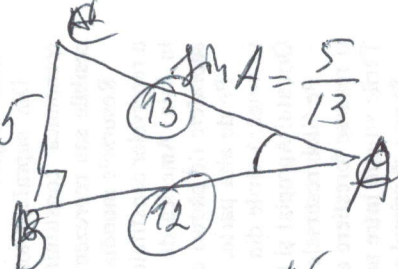
N1 чр 157

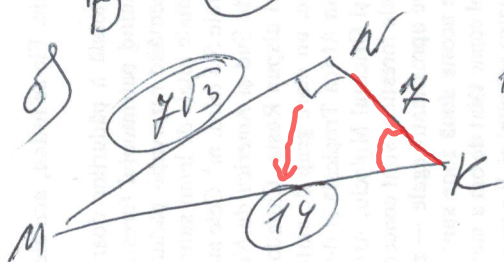
a)  1) no r. ну ф820/8
 $x^2 = 3^2 + 4^2$
 $x = \sqrt{9+16} = \sqrt{25} = 5$
 2) $\sin \alpha = \frac{4}{5}$ 4) $\operatorname{ctg} \alpha = \frac{4}{3}$
 3) $\cos \alpha = \frac{3}{5}$ 5) $\operatorname{cctg} \alpha = \frac{3}{4}$

b)

 1) no r. ну ф820/8
 $x^2 = 7^2 + 10^2$
 $x = \sqrt{49+100} = \sqrt{149}$
 2) $\sin \alpha = \frac{10}{\sqrt{149}}$ 4) $\operatorname{ctg} \alpha = \frac{10}{7}$
 3) $\cos \alpha = \frac{7}{\sqrt{149}}$ 5) $\operatorname{cctg} \alpha = \frac{7}{10}$

N2

a)  1) $\sin A = \frac{CB}{CA} \Rightarrow \frac{5}{13} = \frac{5}{13} \Rightarrow CA = 13$
 2) no r. ну ф820/8 $CA^2 = CB^2 + BA^2$
 $13^2 = 5^2 + BA^2 \Rightarrow BA = \sqrt{169-25} = 12$
 3) отв: $CA = 13, BA = 12$



1) $\cos K = \frac{1}{2}$ $\cos K = \frac{NK}{MK}$
 $\frac{4}{14} = \frac{1}{2} \Rightarrow MK = 14$
 2) no r. ну ф820/8 $MK^2 = MN^2 + NK^2$
 $14^2 = MN^2 + 4^2 \Rightarrow MN = \sqrt{196-16} = \sqrt{180} = 6\sqrt{5}$
 отв: $MK = 14; MN = 6\sqrt{5}$

N3

a) $\sin 45^\circ + \cos 45^\circ = \frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} = \frac{2\sqrt{2}}{2} = \sqrt{2}$; б) $\sin 60^\circ \cdot \operatorname{ctg} 60^\circ = \frac{\sqrt{3}}{2} \cdot \frac{1}{\sqrt{3}} = \frac{1}{2}$
 б) $\cos 30^\circ \cdot \operatorname{cctg} 30^\circ = \frac{\sqrt{3}}{2} \cdot \sqrt{3} = \frac{3}{2}$; в) $\frac{\sin 30^\circ}{\cos 60^\circ} = \frac{\frac{1}{2}}{\frac{1}{2}} = 1$
 е) $\frac{\cos 30^\circ}{\sin 60^\circ} = \frac{\frac{\sqrt{3}}{2}}{\frac{\sqrt{3}}{2}} = 1$