53
$$4\cos 0 - 2\sec \frac{\pi}{3} + 2\csc \frac{\pi}{4} - 4\sec \frac{\pi}{4} + \cot \frac{\pi}{2} =$$

$$=4.1-2.\frac{1}{\cos \frac{\pi}{3}}+2.\frac{1}{\sin \frac{\pi}{4}}-\frac{2}{4}.\frac{\sqrt{2}}{2}+\frac{\cos \frac{\pi}{2}}{\sin \frac{\pi}{2}}=$$

$$=4-2\cdot\frac{1}{2}+2\cdot\frac{1}{52}-250+\frac{0}{1}=$$

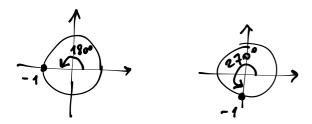
$$= 4 - 2 \cdot 2 + 2 \cdot \frac{2}{\sqrt{2}} - 2\sqrt{2} =$$

$$= \frac{4}{\sqrt{2}} - 2\sqrt{2} = \frac{4 - 2\sqrt{2} \cdot \sqrt{2}}{\sqrt{2}} = \frac{4 - 4}{\sqrt{2}} = 0$$

$$(\sin 270^{\circ})^{2}$$

$$\cos 0^{\circ} + \sin 90^{\circ} - 3\cos 180^{\circ} + 5\sin^{2}270^{\circ} - \frac{\sin 180^{\circ}}{\circ} + 7\cos 270^{\circ} = \frac{\cos 180^{\circ}}{\circ} + \frac{1}{3}\cos 270^{\circ}$$

$$= 1 + 1 - 3 \cdot (-1) + 5 \cdot (-1)^{2} - 0 + 7 \cdot 0 =$$



$$= 1 + 1 + 3 + 5 = 10$$

$$\sqrt{3}\cos 30^{\circ} - \sqrt{3}\sec 60^{\circ} - \sec 45^{\circ} + \cos 60^{\circ}\csc 45^{\circ} - 8\sec^2 30^{\circ} =$$

$$= \sqrt{3} \cdot \frac{\sqrt{3}}{2} - \sqrt{3} \cdot \frac{1}{\cos 60^{\circ}} - \frac{\sqrt{2}}{2} + \frac{1}{2} \cdot \frac{1}{\sin 45^{\circ}} - 8 \cdot \left(\frac{1}{2}\right)^{2} =$$

$$= \frac{3}{2} - \sqrt{3} \cdot \frac{1}{2} - \frac{\sqrt{2}}{2} + \frac{1}{2} \cdot \frac{1}{\sqrt{2}} - \frac{2}{2} \cdot \frac{1}{4} =$$

$$=\frac{3}{2}-2\sqrt{3}-\frac{\sqrt{2}}{2}+\frac{1}{\sqrt{2}}-2=-\frac{1}{2}-2\sqrt{3}$$