a) ... = 
$$-ctg\alpha \cdot (-ctg\alpha) - ctg\alpha \cdot ctg\alpha = 0$$
;

...) ... = 
$$\frac{2\sin\alpha \cos\alpha(-tg\alpha)}{-t\alpha\alpha \sin\alpha} = 2\cos\alpha;$$

...) ... = 
$$\frac{2\sin\alpha \cos\alpha(-tg\alpha)}{-tg\alpha \sin\alpha} = 2\cos\alpha;$$
6) ... = 
$$\frac{-tg\alpha (-\cos\alpha)ctg\alpha}{\cos\alpha (-tg\alpha)(-ctg\alpha)} = 1$$

6) ... = 
$$-arctg \frac{\sqrt{3}}{3} + \left(\pi - arccos \frac{1}{2}\right) + \frac{\pi}{2} = -\frac{\pi}{6} + \pi - \frac{\pi}{3} + \frac{\pi}{2} = \pi$$

B) ... = 
$$3 \cdot \left(-\frac{\pi}{2}\right) - \frac{3}{2} \cdot \left(\pi - \frac{\pi}{6}\right) - 7.5 \cdot \left(\pi - \frac{\pi}{6}\right) =$$

$$= -\frac{3\pi}{2} - \frac{3\pi}{2} + \frac{\pi}{4} - 7.5 \cdot \frac{5\pi}{6} = -9$$

r) ... = 
$$5 \cdot \left(-\frac{\pi}{3}\right) - 8\pi - 6 \cdot \frac{\pi}{3} = -\frac{5\pi}{3} - 8\pi - 2\pi = -\frac{35\pi}{3}$$