$$log\_{7+4\sqrt{3}}^{\left(7-4\sqrt{3}\right)}=log\_{7+4\sqrt{3}}^{\left(7-4\sqrt{3}\right)}+1-1=log\_{7+4\sqrt{3}}^{\left(7-4\sqrt{3}\right)}+log\_{7+4\sqrt{3}}^{\left(7+4\sqrt{3}\right)}-1=log\_{7+4\sqrt{3}}^{\left(7-4\sqrt{3}\right)\*(7+4\sqrt{3})}-1=log\_{7+4\sqrt{3}}^{1}-1=0-1=-1$$