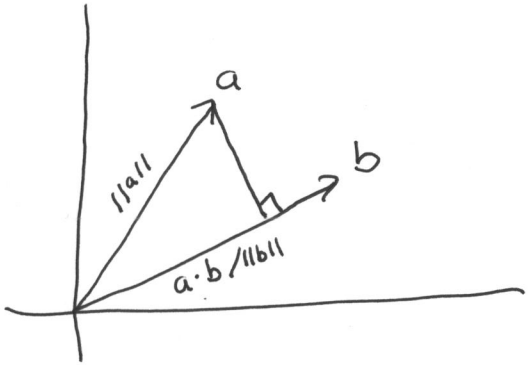
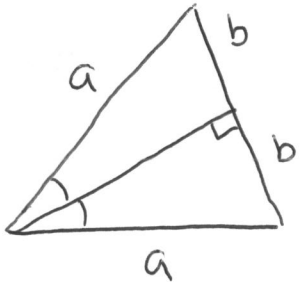
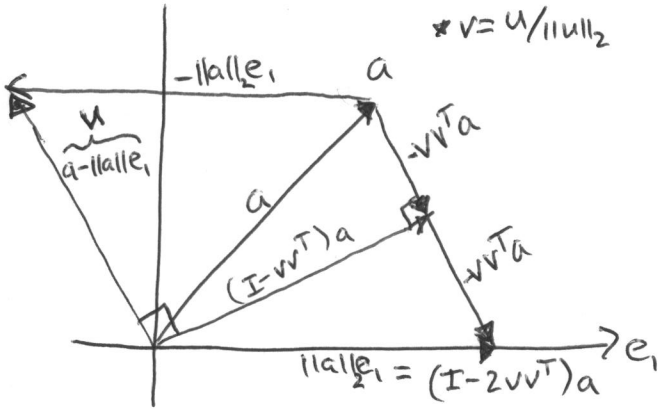

a
b
||a||
a·b/||b||


a
b
b
a


* v = u/||u||₂
-||a||₂e₁
a
u
a-||a||e₁
-vv^Ta
a
(I-vv^T)a
vv^Ta
e₁
||a||₂e₁ = (I-2vv^T)a