1.3: Kompletise n-tupler 1.) $5x^{2} + ty^{2}$: s = i, t = 1 + 2i, x = (-4i), y = (2+i) $SX^{b} + ty^{b} = i(-4i) + (1+2i)(2+i)$ = (2i+1)+ (2+i+4i-2) = (4+5i) = (4+5i) = (2i+1+2i-4) = (4i-3)3.) x.y = (1+3i, -2i, 2+3i)(2, 1+2i, -1+i) = (1+3i)2+(-2i)(1+2i)+(2+3i)(-1+i)= 2+6i - 2i + 4 - 2 + 2i - 3i - 3 = 1 + 3i4) Vis: Y x yeer 1x-y 12= 1x12-2Re(x-y)+1y12: 1x-y)2= (x-y)(x-y)= x.x-x.y-y.x+y.y = |x|2+1y2-x.y-x.y kompletistronjager) NB: 7. 8 # for tupler of the formal of the f

Vis:
$$(x+y) \cdot (x-y) = |x|^2 - 2Im(x-y) - |y|^2$$

 $(x+y) \cdot (x-y) = x \cdot x - x \cdot y + y \cdot x - y \cdot y$
 $= |x|^2 + |y|^2 - x \cdot y + x \cdot y$
 $= |x|^2 - |y|^2 - 2Im(x \cdot y)$
 $= |x| \cdot Velitor produletet$
[a) $(-1,3,2) \times (-2,1,7) = 0$
 $(-1,3,2)$