$$A^2 =$$

	v_1	v_2	(v_1, v_3)	(v_2, v_3)	(v_3, v_4)	†
$*$	10	10	0	0	0	0
v_1	0	0	20	0	0	0
v_2	0	0	0	10	0	0
(v_1, v_3)	0	0	0	0	10	10
(v_2, v_3)	0	0	0	0	10	0
(v_3, v_4)	0	0	0	0	0	10

where