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Find the shortest paths, and their lengths, from vertex  $v_1$  to each of the other vertices in the graph shown below. (Weights appear off the centre point of corresponding edge.)

	$v_1$	$v_2$	$v_3$	$v_4$	$v_5$
$v_1$	0	11	0	5	9
$v_2$	11	0	0	0	0
$v_3$	0	0	0	10	4
$v_4$	5	0	10	0	3
$v_5$	9	0	4	3	0

