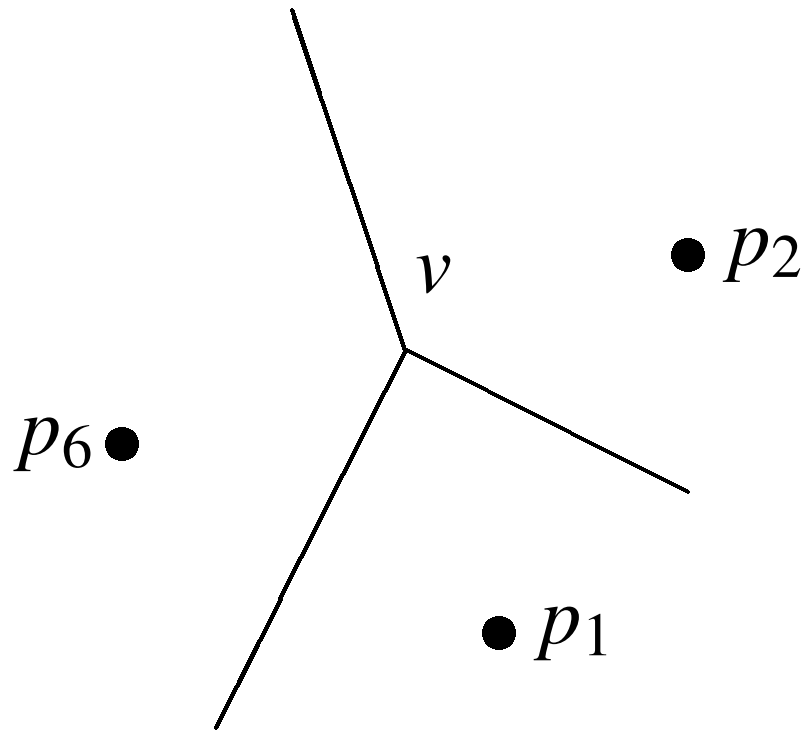

$$d(p_1, v) = d(p_2, v) = d(p_6, v)$$