Имя

$$|M_1' M_2'|^2 = [x_2' - x_1']^2 + [y_2' - y_1']^2 =$$

$$= [a_{11}(x_2 - x_1) + a_{12}(y_2 - y_1)]^2 +$$

$$+ [a_{21}(x_2 - x_1) + a_{22}(y_2 - y_1)]^2 =$$

$$= (a_{11}^2 + a_{21}^2)(x_2 - x_1)^2 + (a_{12}^2 + a_{22}^2)(y_2 - y_1)^2 +$$

$$2(a_{11}a_{12} + a_{21}a_{22})(x_2 - x_1)(y_2 - y_1) =$$

$$= (x_2 - x_1)^2 + (y_2 - y_1)^2 = |M_1 M_2|^2$$