

$$(p-x_1) = (x_1-x_0)\alpha + (x_2-x_0)\beta$$

$$(p-y_0) = (y_1-y_0)\alpha + (y_2-y_0)\beta$$

$$(p-x_2)(y_1-y_0) = (y_1-y_0)(x_1-x_0)\alpha + (x_2-x_0)(y_1-y_0)\beta$$

$$(p-y_0)(x_1-x_0) = (y_1-y_0)(x_1-x_0)\alpha + (y_2-y_0)(x_1-x_0)\beta$$

$$(p-x_0)(y_1-y_0) - (p-y_0)(x_1-x_0) = \left[(x_2-x_0)(y_1-y_0) - (y_2-y_0)(x_1-x_0) \right] \beta$$

$$\frac{(p-x_0)(y_1-y_0) - (p-y_0)(x_1-x_0)}{(x_2-x_0)(y_1-y_0) - (y_2-y_0)(x_1-x_0)} = \beta$$

$$(p-x_0) = (x_1-x_0)\alpha + (x_2-x_0)\beta$$

$$(p-x_0) = (x_1-x_0)\alpha + (x_2-x_0)\beta$$

$$-(x_2-x_0)\beta$$

$$(x_1-x_0)\alpha = \frac{(p-x_0) - (x_2-x_0)\beta}{(x_1-x_0)}$$