Lines
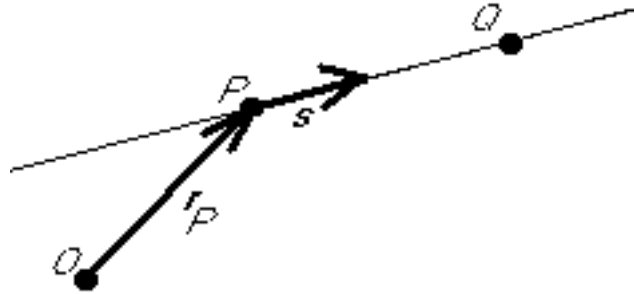
Line through point P parallel to vector $\vec{s}$:

$$\vec{r} = \vec{r}_P + \lambda\vec{s}$$

This applies to any number of dimensions.