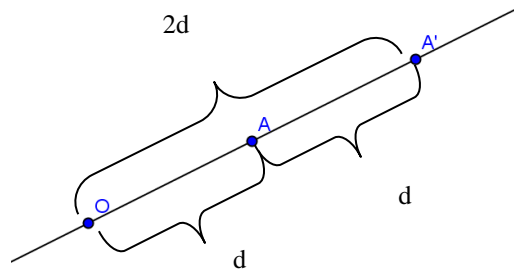


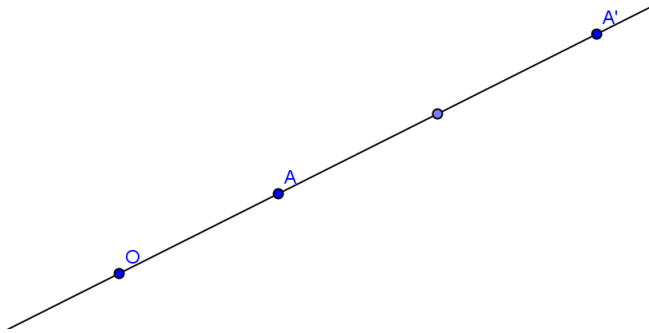
Primjer:  $k > 0$

a)  $k=2$



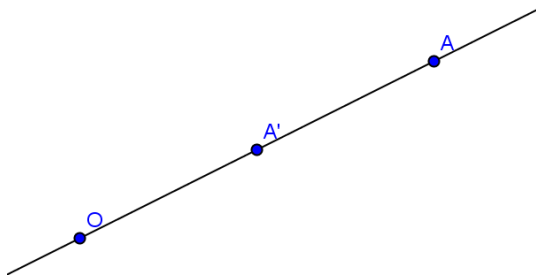
$$|OA'| = 2|OA|$$

b)  $k=3$



$$|OA'| = 3|OA|$$

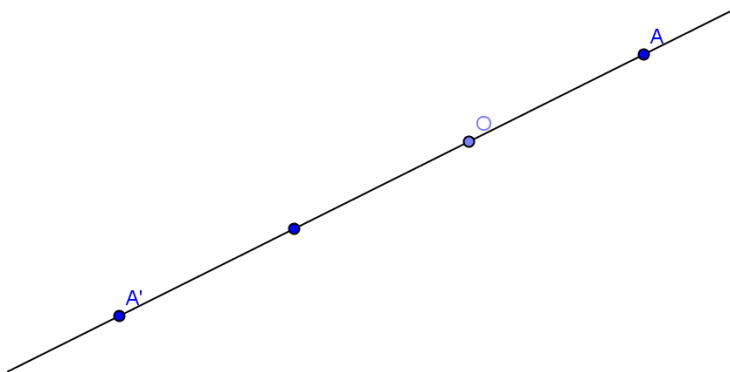
c)  $k = \frac{1}{2}$



$$|OA'| = \frac{1}{2}|OA|$$

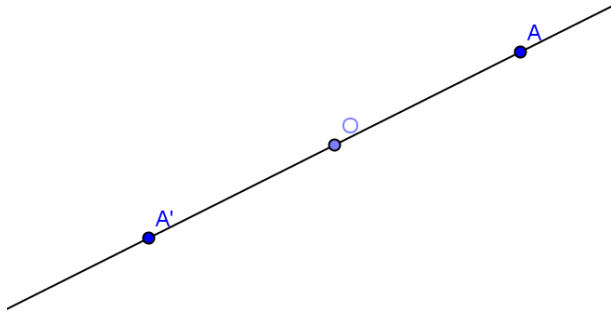
Primjer:  $k < 0$

a)  $k=-2$



$$|OA'| = 2|OA|$$

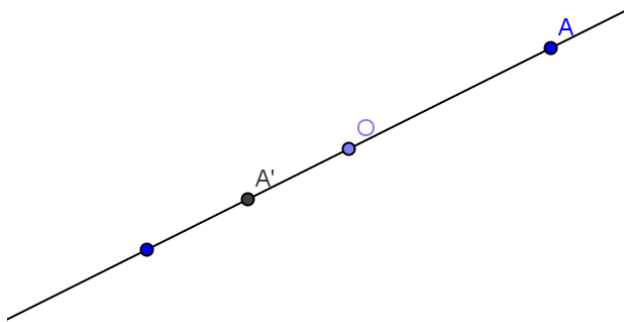
b)  $k=-1$



$$|OA'| = |OA|$$

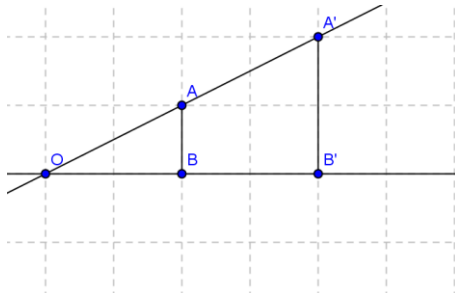
c)  $k = -\frac{1}{2}$

$$|OA'| = \frac{1}{2}|OA|$$



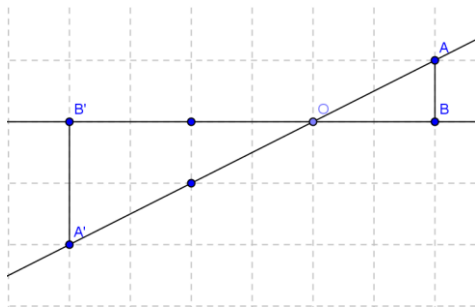
**Primjer:** Homotetična slika dužine  $\overline{AB}$

a) za  $k=2$



$$|OA'| = 2|OA|, |OB'| = 2|OB|$$

b) za  $k=-2$



$$|OA'| = 2|OA|, |OB'| = 2|OB|$$

**Zaključak:**

Homotetiija preslikava dužinu  $\overline{AB}$  u njoj paralelnu dužinu  $\overline{A'B'}$

Vrijedi:  $|AB| = |k| |A'B'|$