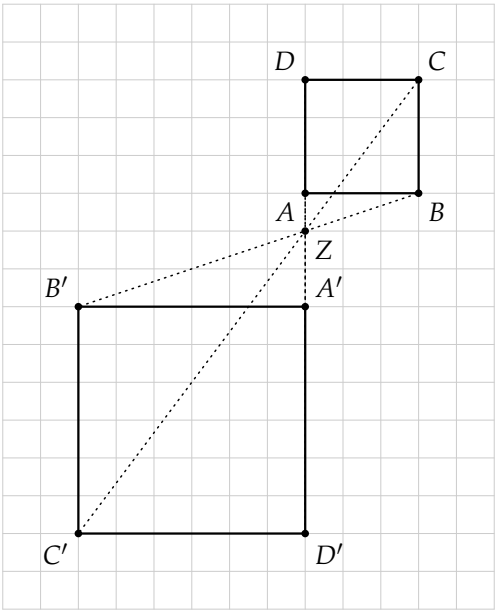
Aufgabe 10

a)

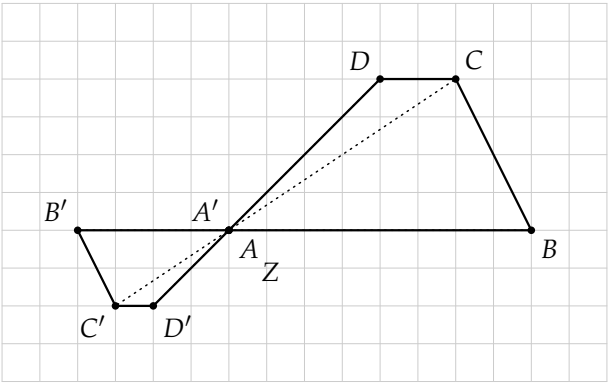
$$k = -2$$



$$\overline{ZA'} = 0{,}5 \cdot 2 = 1$$
$$\overline{ZB'} = 1{,}58 \cdot 2 = 3{,}16$$
$$\overline{ZC'} = 2{,}5 \cdot 2 = 5$$
$$\overline{ZD'} = 2 \cdot 2 = 4$$

b)

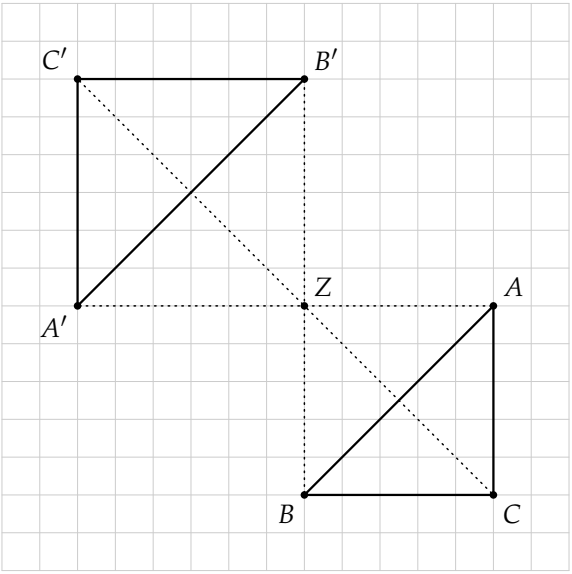
$$k = -0{,}5$$



$$\overline{ZA'} = 0 \cdot 0{,}5 = 0$$
$$\overline{ZB'} = 4 \cdot 0{,}5 = 2$$
$$\overline{ZC'} = 3{,}61 \cdot 0{,}5 = 1{,}81$$
$$\overline{ZD'} = 2{,}83 \cdot 0{,}5 = 1{,}42$$

c)

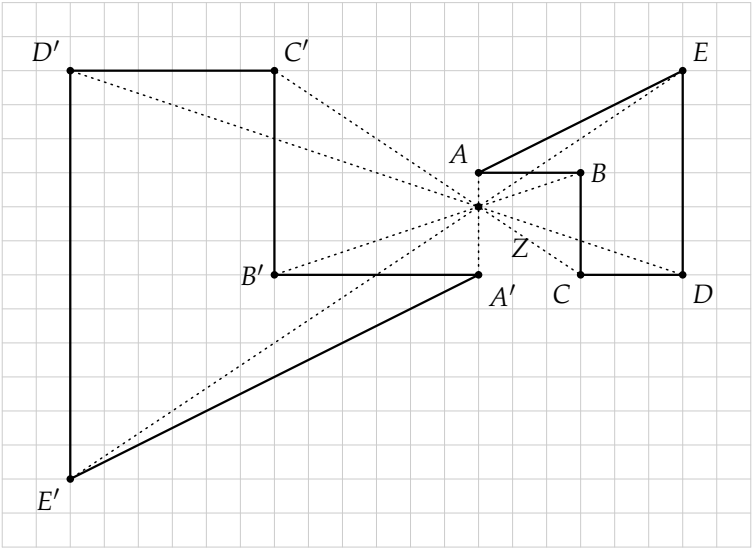
$$k = -1{,}2$$



$$\overline{ZA'} = 2{,}5 \cdot 1{,}2 = 3$$
$$\overline{ZB'} = 2{,}5 \cdot 1{,}2 = 3$$
$$\overline{ZC'} = 3{,}52 \cdot 1{,}2 = 4{,}22$$

d)

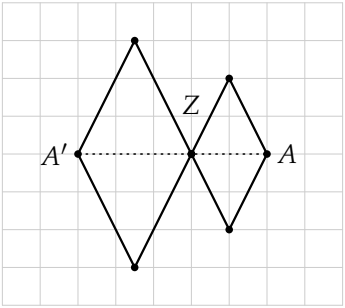
$$k = -2$$



$$\overline{ZA'} = 0{,}5 \cdot 2 = 1$$
$$\overline{ZB'} = 1{,}58 \cdot 2 = 3{,}16$$
$$\overline{ZC'} = 1{,}8 \cdot 2 = 3{,}6$$
$$\overline{ZD'} = 3{,}16 \cdot 2 = 6{,}32$$
$$\overline{ZE'} = 3{,}61 \cdot 2 = 7{,}22$$

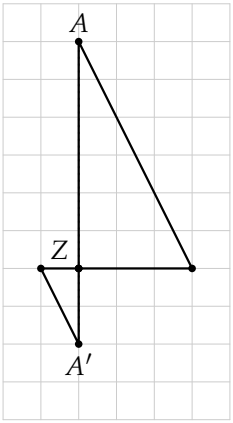
Aufgabe 11

a)



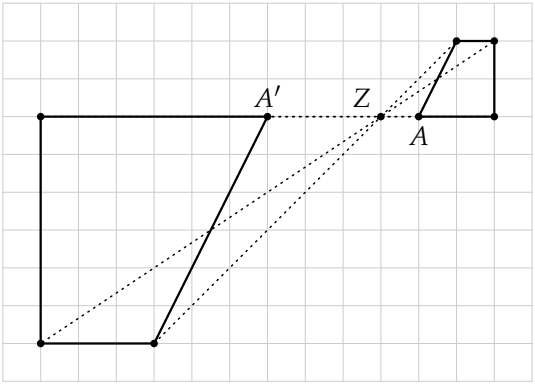
$$k = \frac{\overline{ZA'}}{\overline{ZA}} = -\frac{3}{2} = -1\frac{1}{2} = -1{,}5$$

b)



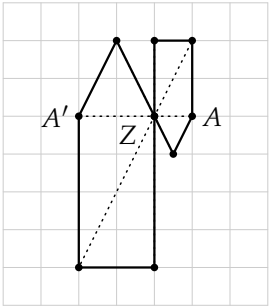
$$k = \frac{\overline{ZA'}}{\overline{ZA}} = -\frac{2}{6} = -\frac{1}{3} = -0{,}33$$

c)



$$k = \frac{\overline{ZA'}}{\overline{ZA}} = -\frac{3}{1} = -3$$

d)



$$k = \frac{\overline{ZA'}}{\overline{ZA}} = -\frac{2}{1} = -2$$