

$$20 - \textcircled{1} \text{ b) } A = 0 \quad B = 3 \quad C = 2$$

$$(A, B; C, D) = -1 = \frac{(C-A)(B-D)}{(B-C)(D-A)}$$

$$C - A = 2$$

$$B - D = 3 - d$$

$$B - C = 3 - 2 = 1$$

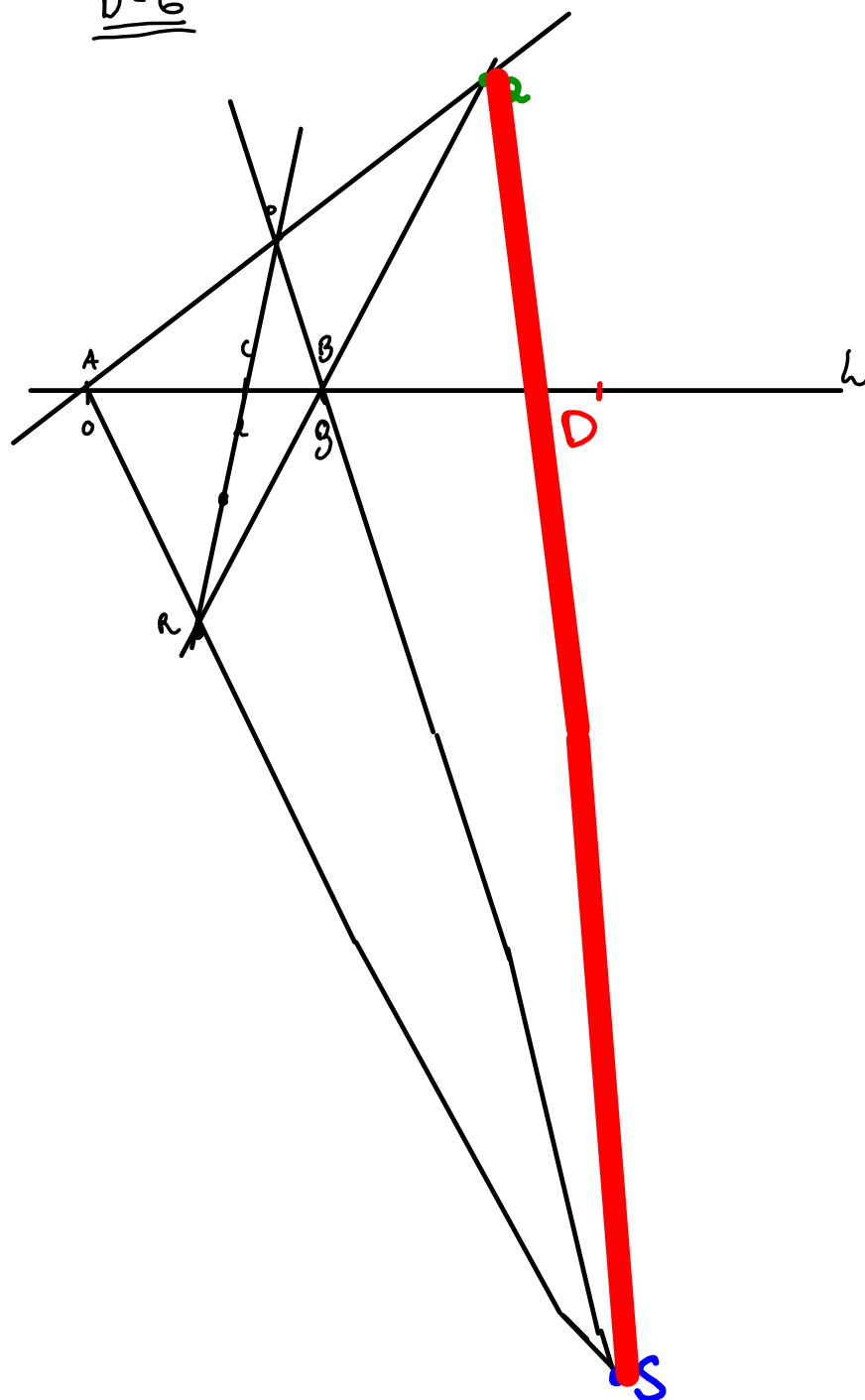
$$D - A = d$$

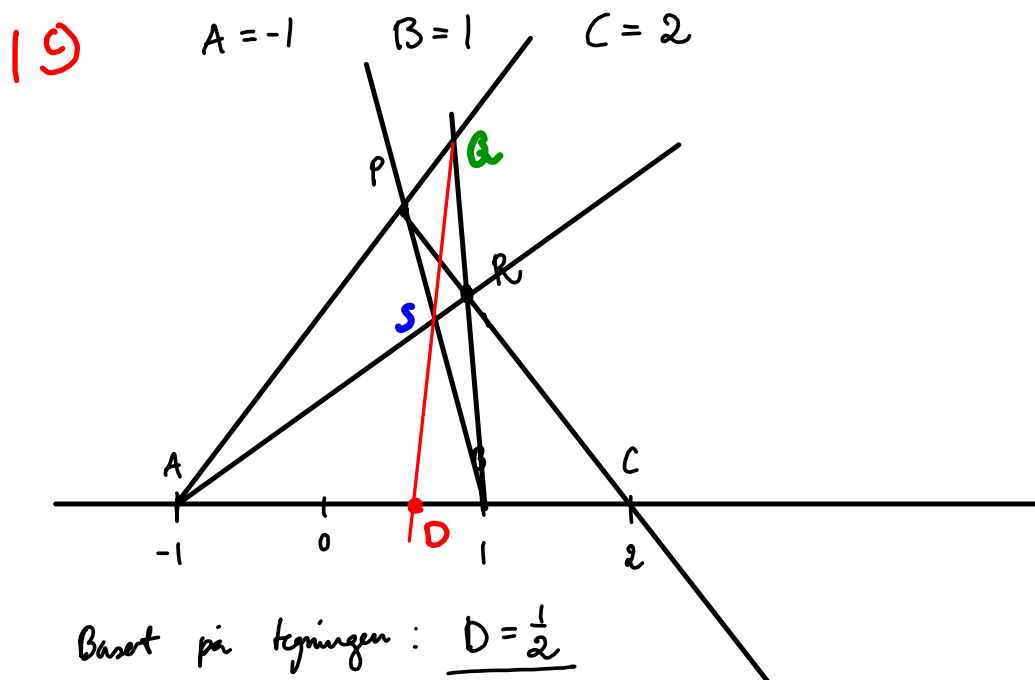
$$\frac{2 \cdot (3 - d)}{1 \cdot d} = -1$$

$$6 - 2d = -d$$

$$\underline{\underline{d = 6}}$$

$$\underline{\underline{D = 6}}$$





$$C - A = 2 - (-1) = 3$$

$$B - D = 1 - d$$

$$B - C = 1 - 2 = -1$$

$$D - A = d - (-1) = d + 1$$

$$-1 = \frac{3 \cdot (1 - d)}{-1(d + 1)}$$

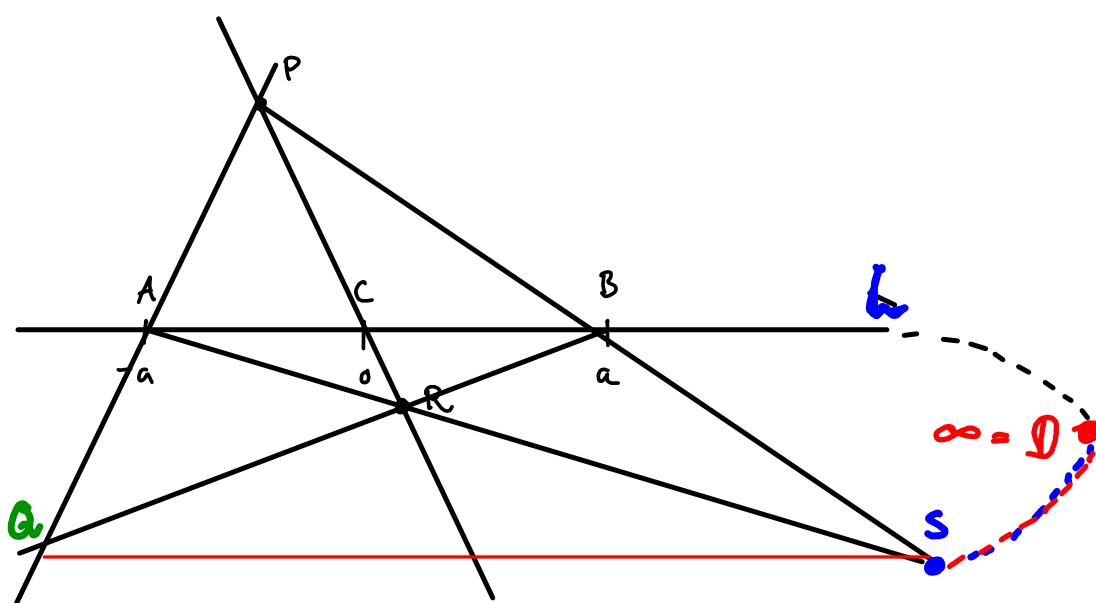
$$d + 1 = 3 - 3d$$

$$4d = 2$$

$$d = \frac{1}{2}$$

$$\underline{D = \frac{1}{2}}$$

1a) $A = -a \quad B = a \quad C = 0, \quad a > 0$



$$\begin{aligned} C - A &= 0 - (-a) = a \\ B - D &= a - d \\ B - C &= a - 0 = a \\ D - A &= d - (-a) = d + a \end{aligned}$$

$$\begin{aligned} -1 &= \frac{a(a-d)}{a(d+a)} \\ -d - a &= a - d \\ \underline{a} &= 0 \end{aligned}$$

$$d = \infty \quad \underline{\underline{-1 = \frac{-\infty}{\infty} \text{ per definitionen}}}$$

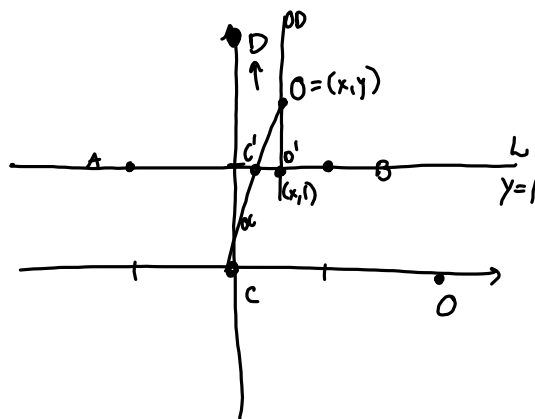
2

$$A = (-1 : 1 : 1)$$

$$B = (1 : 1 : 1)$$

$$C = (0 : 0 : 1)$$

$$D = (0 : 1 : 0)$$



$$L: y=1 \rightsquigarrow \underline{x_1 - x_2 = 0}$$

$$D' = (x : 1 : 1)$$

$$v_{D'} = \underline{OD} \cap L$$

$$= \underline{(x, y, 1)} \times \underline{(0, 1, 0)} \times \underline{(0, 1, -1)}$$

$$= \underline{(-1, 0, x)} \times \underline{(0, 1, -1)}$$

$$= (-x, -1, -1)$$

$$D' = (x : 1 : 1)$$

$$C': v_{C'} = \underline{OC} \cap L$$

$$= \underline{(x, y, 1)} \times \underline{(0, 0, 1)} \times \underline{(0, 1, -1)}$$

$$= \underline{(y, -x, 0)} \times \underline{(0, 1, -1)}$$

$$= (x, y, y)$$

$$y \neq 0 \quad C' = \left(\frac{x}{y} : 1 : 1\right)$$

$$\boxed{y=0 \\ C'=\infty}$$

$$(A, B; C', D') = -1$$

$$C' - A = \frac{x}{y} - (-1) = \frac{x}{y} + 1$$

$$B - D' = 1 - x$$

$$B - C' = 1 - \frac{x}{y}$$

$$D' - A = x - (-1) = x + 1$$

$$-1 = \frac{\left(\frac{x}{y} + 1\right)(1 - x)}{\left(1 - \frac{x}{y}\right)(x + 1)}$$

$$\left(\frac{x}{y} - 1\right)(x + 1) = \left(\frac{x}{y} + 1\right)(1 - x)$$

$$\frac{x^2}{y} + \frac{x}{y} - x - 1 = \frac{x}{y} - \frac{x^2}{y} + 1 - x$$

$$\frac{2x^2}{y} = 2$$

$$\boxed{x^2 = y}$$

Standard parabel