

$$\frac{x}{x-1} < 1 - a$$

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$$\frac{x}{x-1} < 1 - a \quad (a \in \mathbb{R})$$

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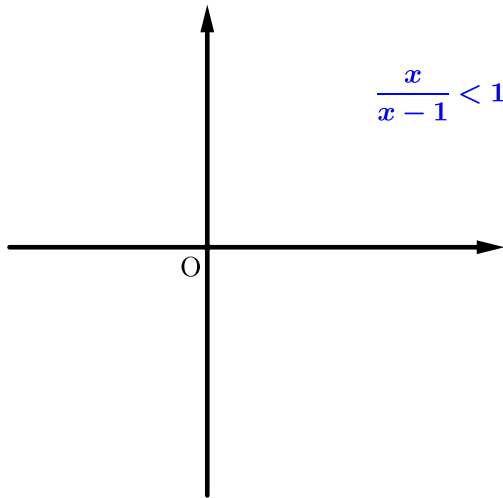
$$\frac{1}{x-1} < -a$$

$$\frac{x}{x-1} < 1 - a$$

$$\frac{x}{x-1} < 1 - a \quad (a \in \mathbb{R})$$

$$-\frac{1}{x-1} > a$$

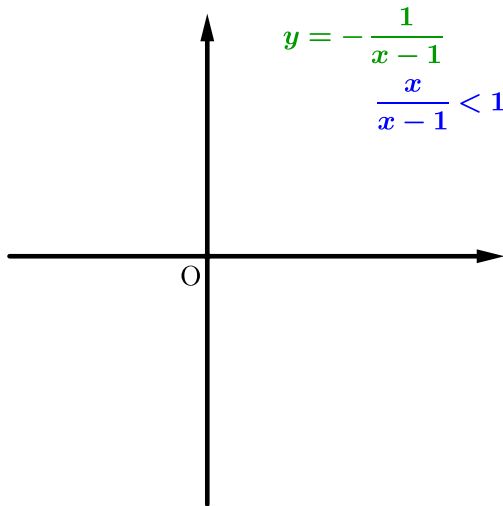
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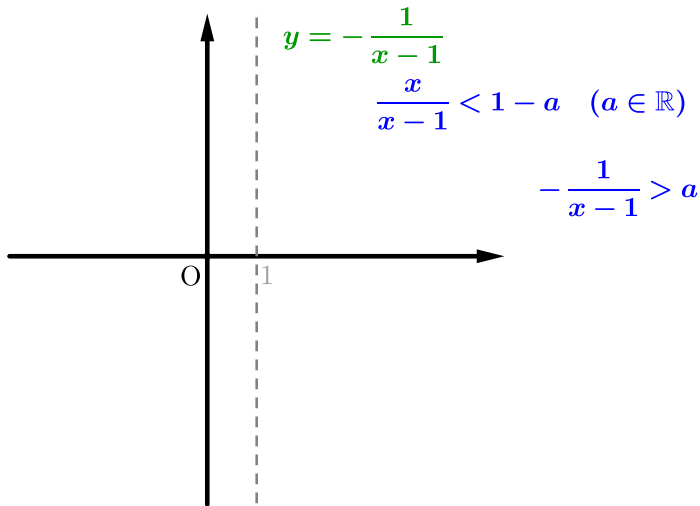


$$y = -\frac{1}{x-1}$$

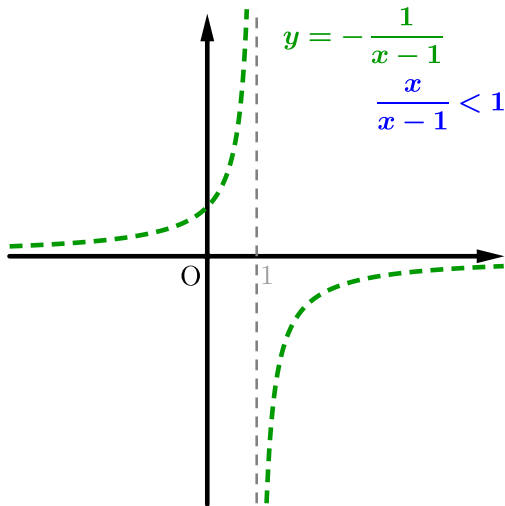
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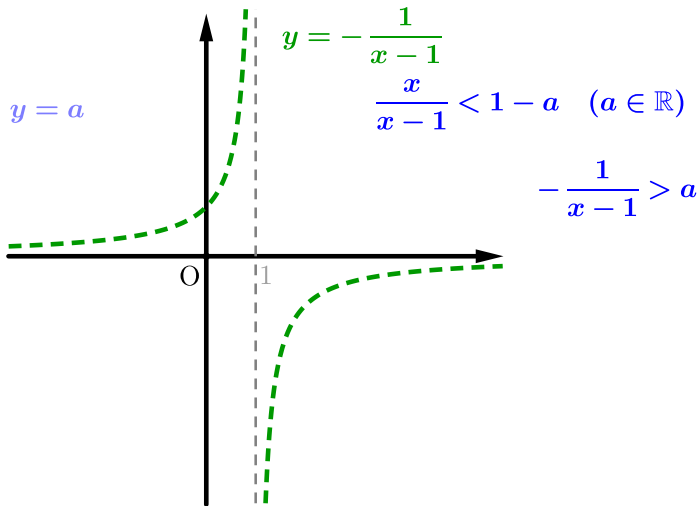


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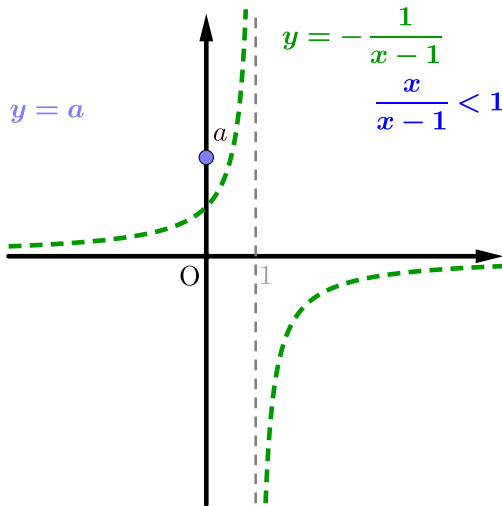
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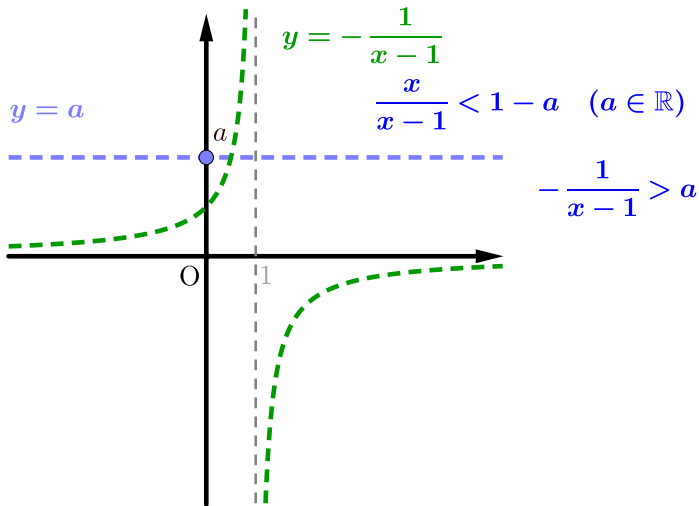


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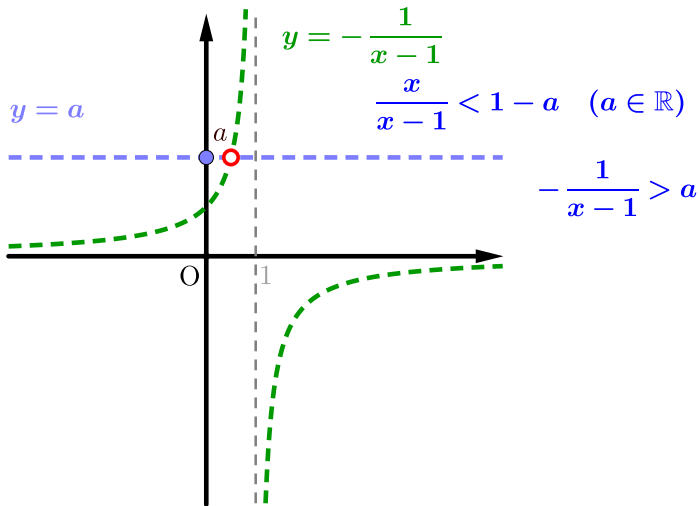
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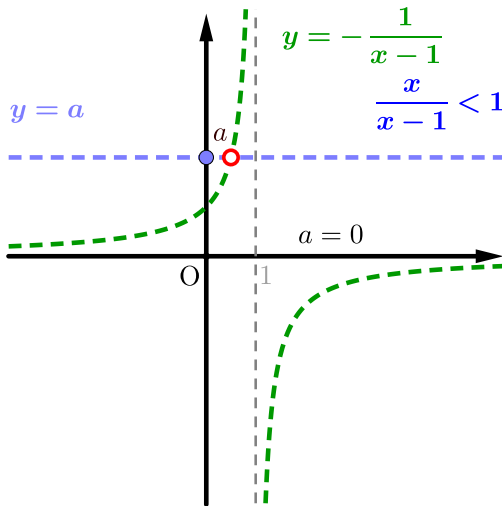
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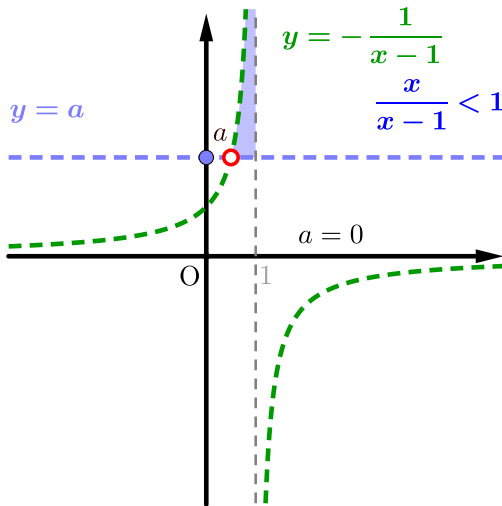


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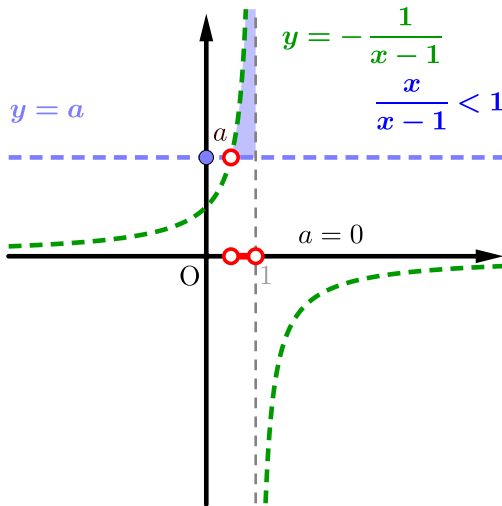


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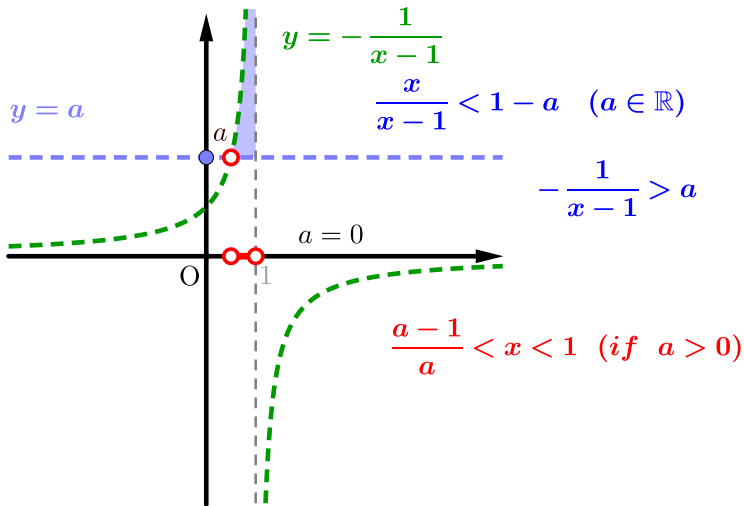


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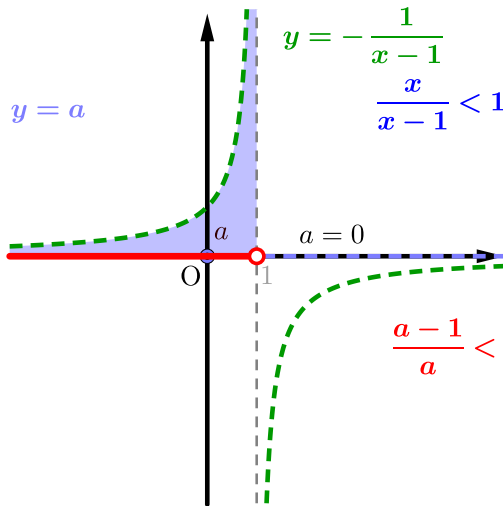
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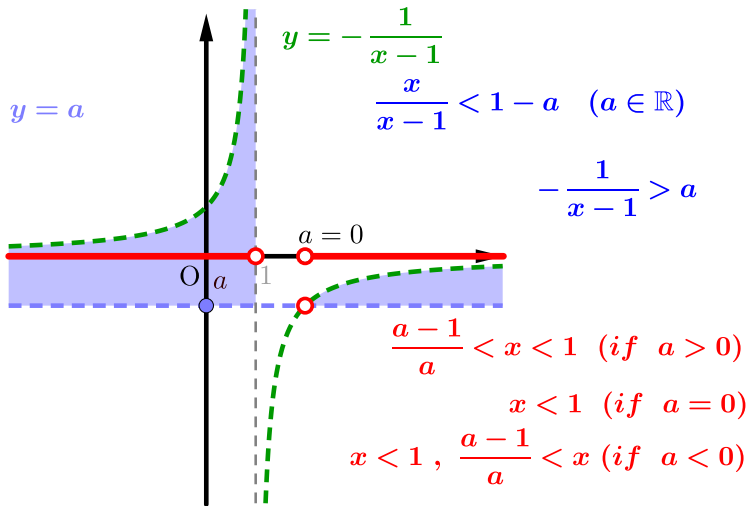
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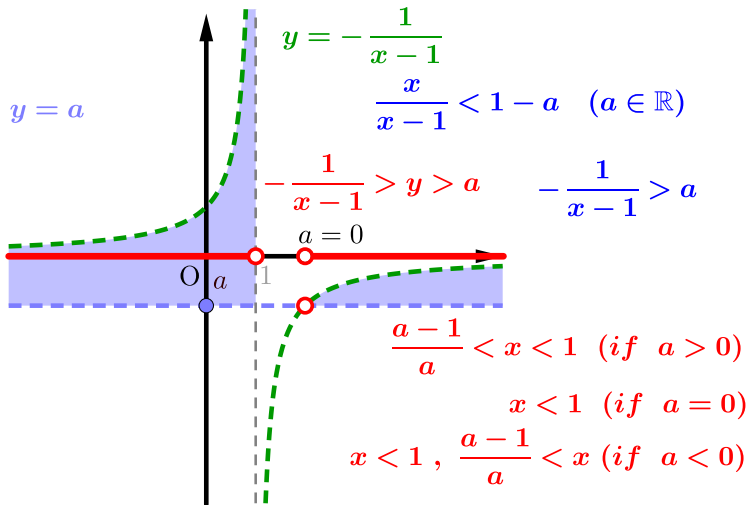
$$\frac{a-1}{a} < x < 1 \quad (\text{if } a > 0)$$

$$x < 1 \quad (\text{if } a = 0)$$

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Github:

<https://min7014.github.io/math20210809001.html>

Click or paste URL into the URL search bar,
and you can see a picture moving.