

	Navn:		Skole:	
	Klasse: 20		Dato: 7. marts 2022	Fag: Matematik A

Opgave 307

$$f(x) = \frac{1}{x}, x \neq 0$$

Opgave A

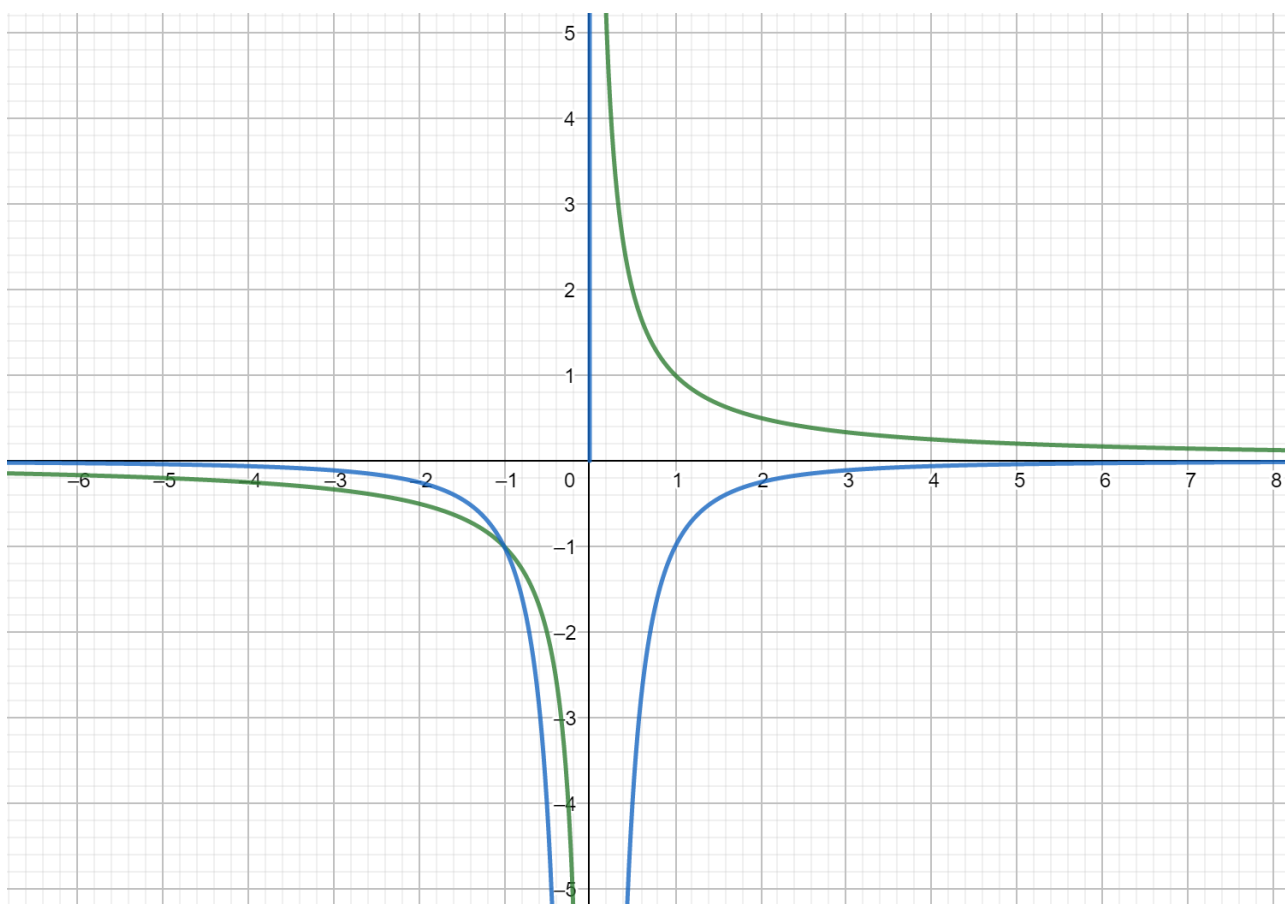
$$f(x) = \frac{1}{x}$$

$$f(x) = x^{-1} \text{ Lav funktionen om}$$

$$f'(x) = n \cdot x^{n-1}$$

$$f'(x) = -1 \cdot x^{-1-1}$$

$$f'(x) = -1 \cdot x^{-2}$$



Opgave B

$$f'(0.5) = -4$$

$$f'(1) = -1$$

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$$f'(2) = -\frac{1}{4}$$

Opgave C

$$f'(-0.5) = -1$$

$$f'(-1) = -1$$

$$f'(-2) = -\frac{1}{4}$$