

	Navn:		Skole:	
	Klasse: 20		Dato: 1. februar 2022	Fag: Matematik A

Opgave 272

Ligning A

$$f(1) = 2.08$$

$$f(3) = 0.3328$$

Opstiller 2 ligninger

$$2.08 = b \cdot a^1$$

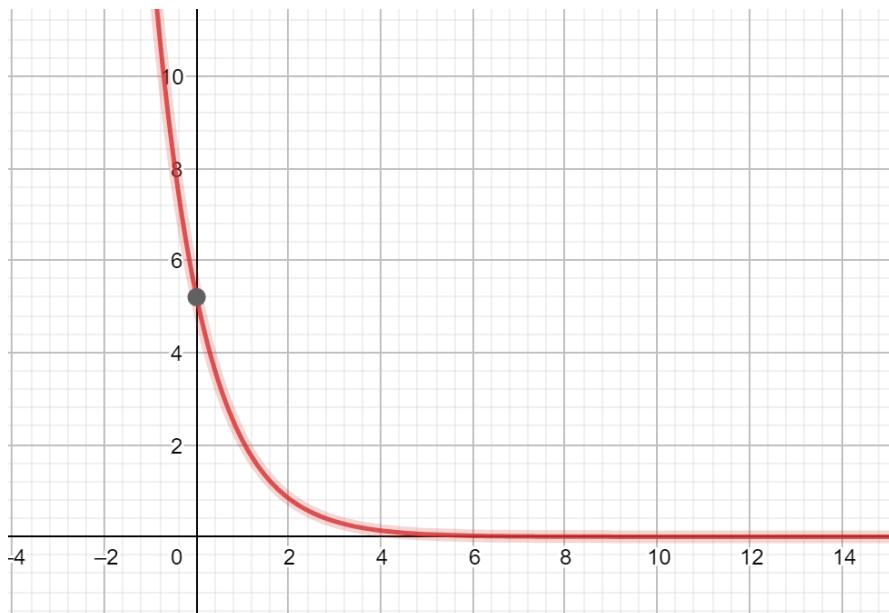
$$0.3328 = b \cdot a^3$$



The system of equations is solved for b, a by WordMat's 'solve equation' function,

$$(b = 5.2 \quad \wedge \quad a = 0.4)$$

$$f(x) = 5.2 \cdot 0.4^x$$



Ligning B

$$f(3) = 40$$

$$f(6) = 320$$

Opstiller 2 ligninger

$$40 = b \cdot a^3$$

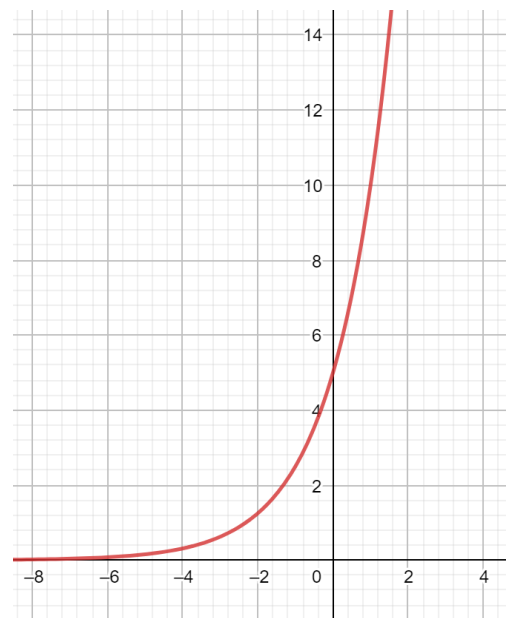
$$320 = b \cdot a^6$$



The system of equations is solved for b, a by WordMat's 'solve equation' function,

$$b = 5 \quad \wedge \quad a = 2$$

$$f(x) = 5 \cdot 2^x$$



	Navn:		Skole:	
	Klasse: 20		Dato: 1. februar 2022	Fag: Matematik A

Lingning C

$$f(4) = 640$$

$$f(8) = 163840$$

Opstille 2 lingningner

$$640 = b \cdot a^4$$

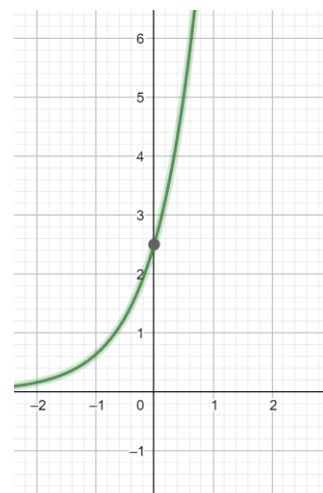
$$163840 = b \cdot a^8$$



The system of equations is solved for b,a by WordMat's 'solve equation' function,

$$(b = 2,5 \quad \wedge \quad a = 4)$$

$$f(x) = 2.5 \cdot 4^x$$



Lingning D

$$f(2) = 32$$

$$f(9) = 1.6$$

Opstilerr 2 linginger

$$32 = b \cdot a^2$$

$$1.6 = b \cdot a^9$$



The system of equations is solved for b,a
by WordMat's 'solve equation' function,

$$b = 75,3135 \quad \wedge \quad a = 0,6518364$$

$$f(x) = 75.31 \cdot 0.652^x$$

