

Name:

UNIT 6 – POST-ASSESSMENT

Does the following table represent a linear or exponential function?

x	-2	-1	0	1	2
y	100	25	6.25	1.5625	.390625

$\div 4$

exp decay

Do the following equations represent exponential growth or decay?

$$y = 3 \cdot 2^{-x}$$

decay

$$y = 3 \cdot \left(\frac{1}{7}\right)^x$$

decay

Mrs. Berenson has 600 friends on Facebook. Her friends are decreasing at a rate of 1.5% each day. How many friends will she have in 40 days?

$$y = 600(1 - 0.015)^{40}$$

327.79

327 friends

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