

1. Which of the following are exponential functions? Select all that apply

$f(x) = -(3)^x$

$f(x) = 0.8^{x+3}$

$f(x) = (-3)^x$

$f(x) = 3^{4x}$

$f(x) = \pi^{5x}$

$f(x) = 1^x$

$f(x) = \left(\frac{4}{5}\right)^x$

$f(x) = x^2$

2. Given the graph of exponential function, $f(x)$, identify the following:

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a. Domain of $f(x)$:

b. Range of $f(x)$:

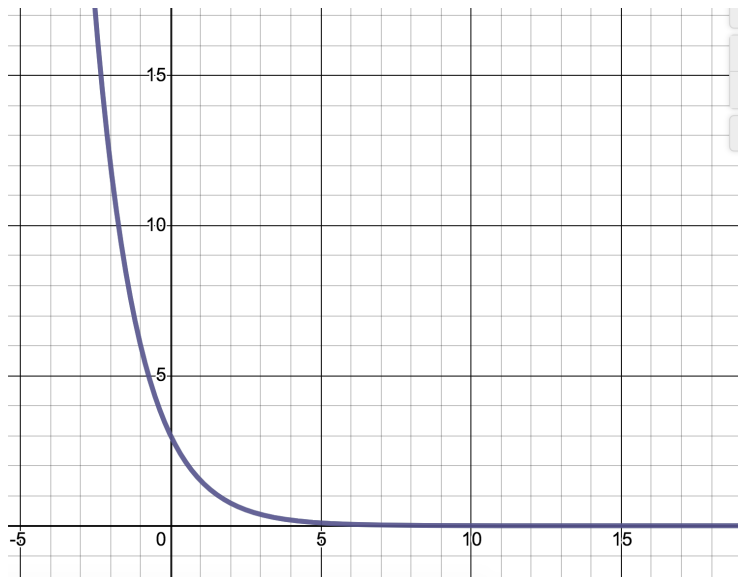
c. End behavior of $f(x)$:

d. Is $f(x)$ increasing or decreasing:

e. x -intercept and y -intercept for $f(x)$:

f. Location of any asymptotes (vertical and horizontal) for $f(x)$:

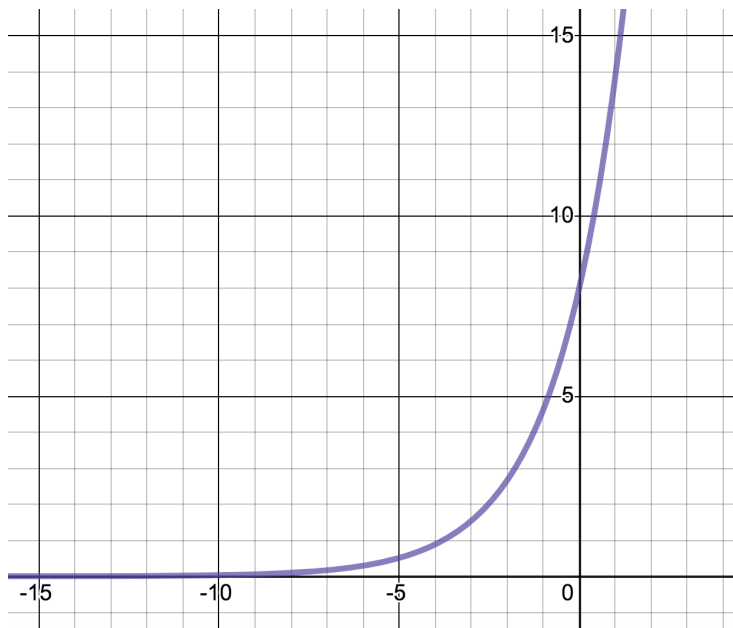
$$f(x) = 3(2)^{-x}$$



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- Range of $f(x)$:
- End behavior of $f(x)$:
- Is $f(x)$ increasing or decreasing:
- x -intercept and y -intercept for $f(x)$:
- Location of any asymptotes (vertical and horizontal) for $f(x)$:

$$f(x) = 8(3)^{\frac{x}{2}}$$



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- Domain of $f(x)$:
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- Is $f(x)$ increasing or decreasing:
- x -intercept and y -intercept for $f(x)$:
- Location of any asymptotes (vertical and horizontal) for $f(x)$:

$$f(x) = -2(3)^{x-1}$$

