

## Exponential Functions Worksheet

Graph the following exponential functions.

1.)  $y = 3^x$

2.)  $y = (1/3)^x$

3.)  $y = 5^{x-2}$

4.)  $y = 6^{x+3}$

5.)  $y = 5^{-x}$

6.)  $y = -6^x$

7.)  $y = 2^{-x} + 3$

8.)  $y = -8^{x-1} - 2$

9.)  $y = -e^x$

10.)  $y = e^{-x}$

11.)  $y = 2 + e^{x-1}$

12.)  $y = -3 - e^{-x}$

13.)  $y = 5 - e^{x+3}$

Find the future value if each amount is compounded continuously.

14.) \$500 for 5 years at 8%

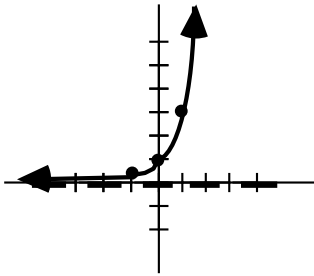
15.) \$820 for 10 years at 10.3%

16.) \$1500 for 12 years at 7.2%

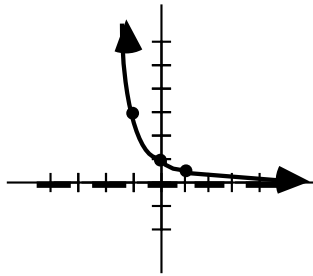
17.) \$2314 for 4 years at 9.9%

### Answers

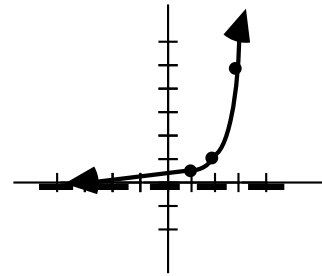
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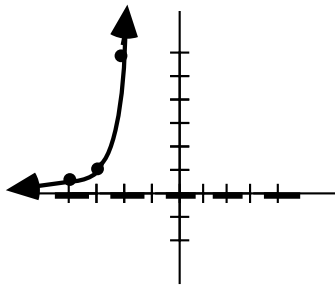
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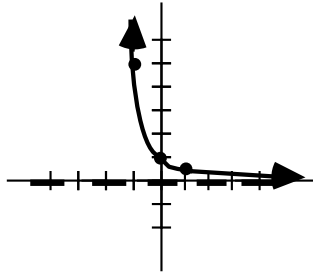
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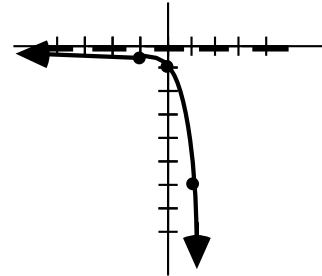
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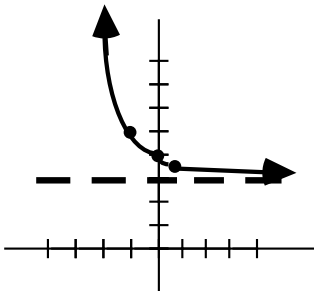
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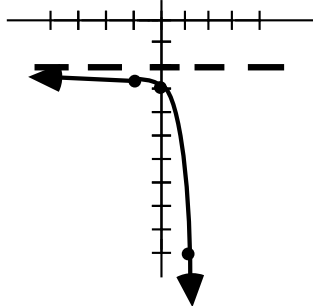
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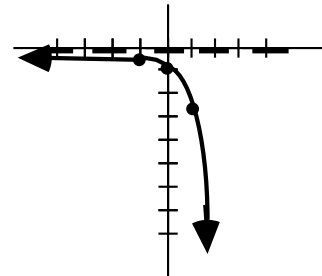
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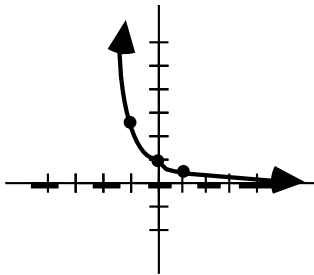
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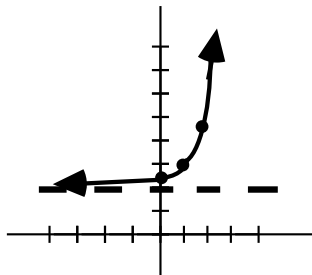
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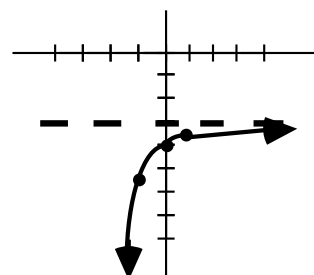
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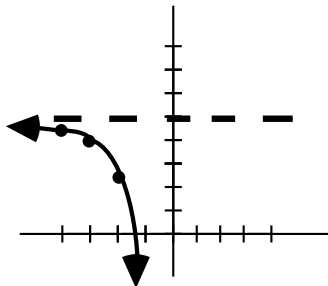
11.)



12.)



13.)



14.) \$745.91

15.) \$2,296.87

16.) \$3,558.95

17.) \$3,438.30

### Graphing Logarithmic Functions Worksheet

Graph the following logarithmic functions.

1.)  $y = \log_4(x + 2)$

2.)  $y = -\log_6(x - 3)$

3.)  $y = 2 + \log_3(-x)$

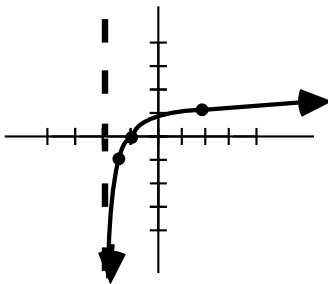
4.)  $y = -5 - \log_7(x + 4)$

5.)  $y = \ln(-x) - 4$

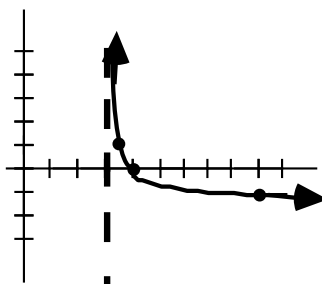
6.)  $y = 2 - \ln(x - 5)$

#### Answers

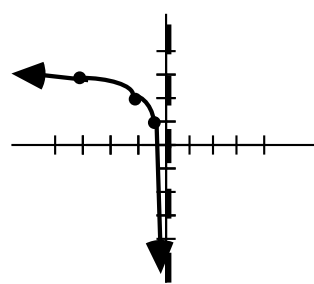
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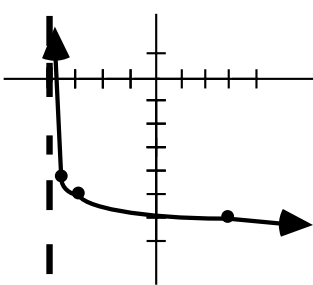
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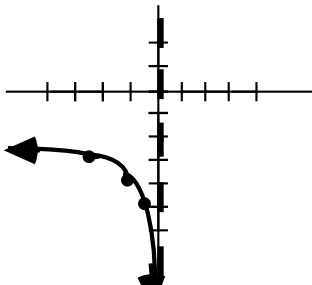
3.)



4.)



5.)



6.)

