

## Graphing Functions Review

**Sketch the graph of each line.**

1)  $y = -\frac{1}{2}x + 3$

2)  $y = \frac{2}{5}x + 3$

**Sketch the graph of each function.**

3)  $y = \frac{1}{2}x^2 - 2x$

4)  $y = x^2 + 4x + 8$

5)  $f(x) = -x^3 + 3x^2 + 2$

6)  $f(x) = -x^3 + 3x^2 - 3$

**Graph each function.**

7)  $f(x) = \frac{-x^3 + x}{x^3 - 9x}$

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

**Sketch the graph of each function.**

9)  $y = 2 \cdot 2^{x-2} - 1$

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

11)  $y = \log_5(x - 1) - 1$

12)  $y = \log_2(x - 1) + 3$

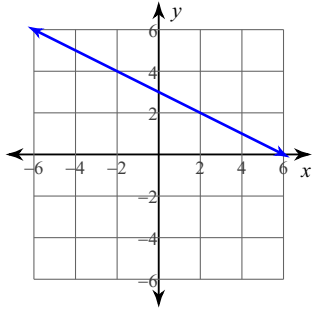
**Graph each function using radians.**

13)  $y = \cos\left(\frac{\theta}{3} - \frac{2\pi}{3}\right) + 2$

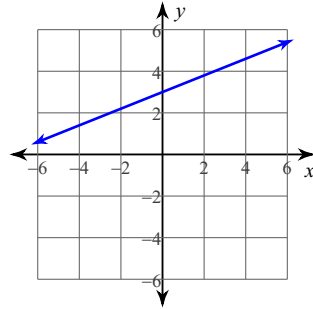
14)  $y = 2\sin\left(3\theta + \frac{5\pi}{6}\right) - 1$

# Answers to Graphing Functions Review

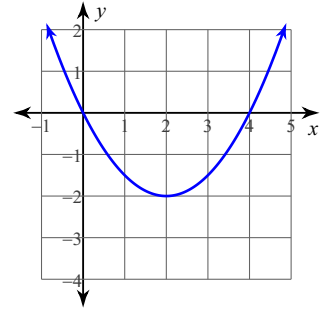
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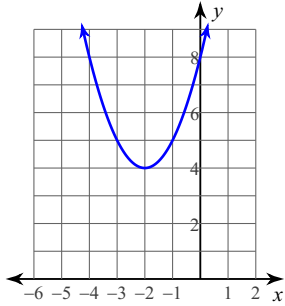
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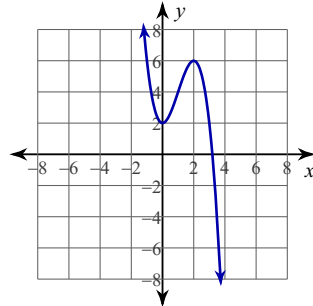
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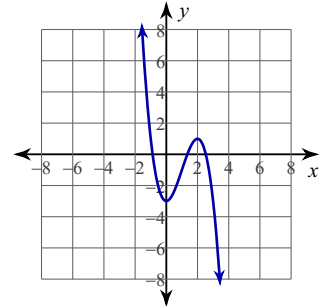
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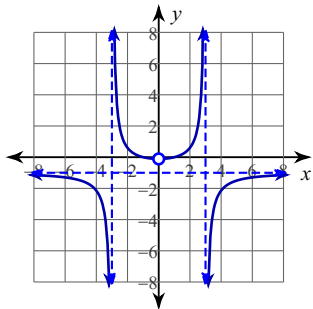
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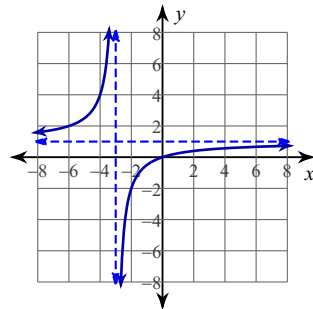
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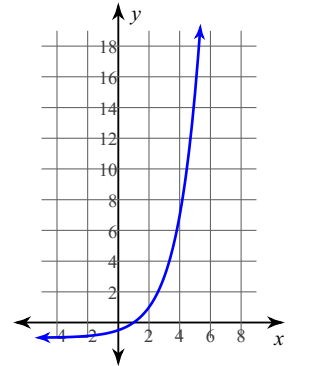
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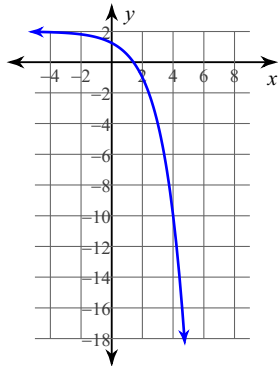
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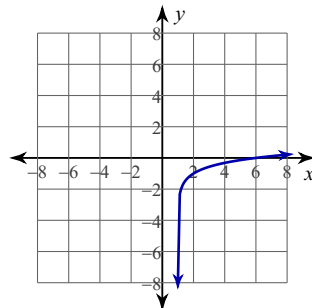
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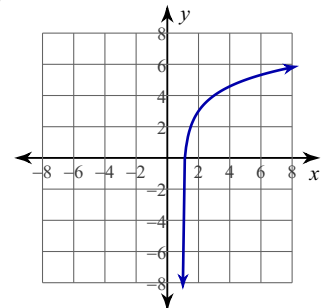
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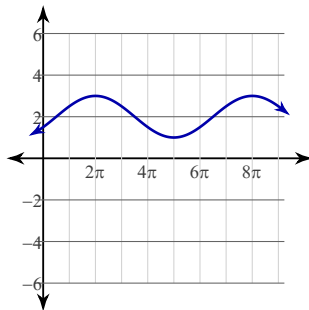
11)



12)



13)



14)

