

Name Key Period _____

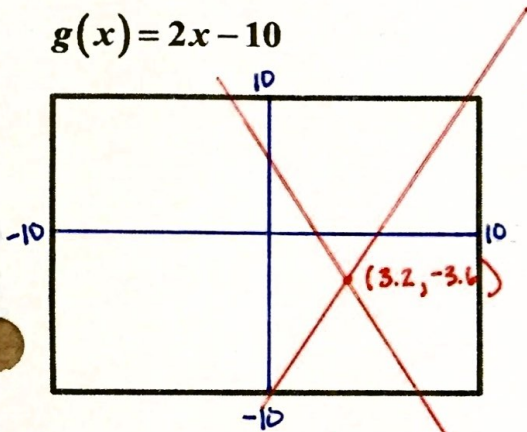
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HW 6-5 HONORS: Solve Systems using a Graphing Calculator

Part 1: Use a graphing calculator to determine the best window to view the solution to the system of equations. Draw a quick sketch of the system in the best window. (Make sure you draw your axes and label your min and max for each axis.)

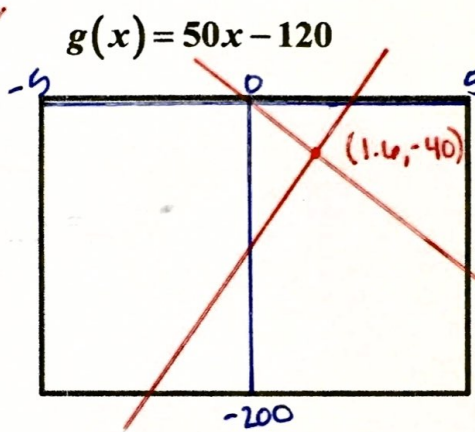
Part 2: Use a graphing calculator to solve the system. Write the solution on your graph. Round the coordinates to the hundredths place, if necessary.

1.
 $f(x) = -3x + 6$
 $g(x) = 2x - 10$



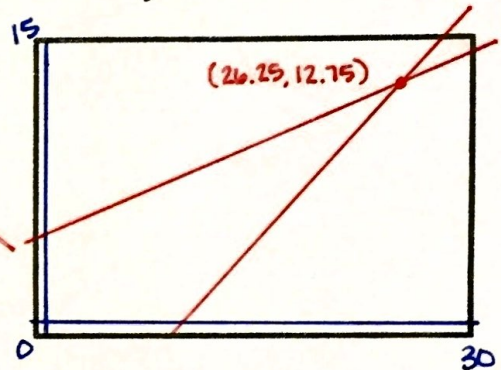
(3.2, -3.6)

2.
 $f(x) = -25x$
 $g(x) = 50x - 120$



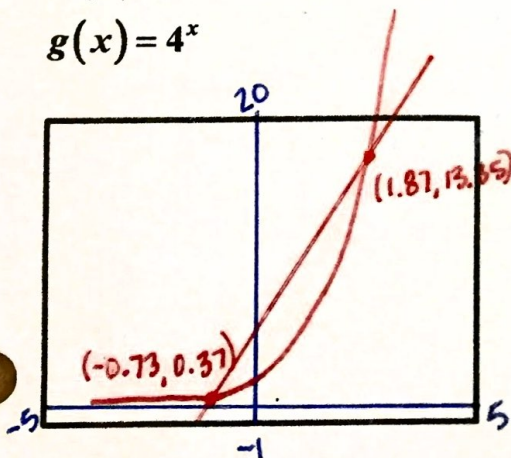
(1.6, -40)

3.
 $-x + 3y = 12$
 $5x - 7y = 42$



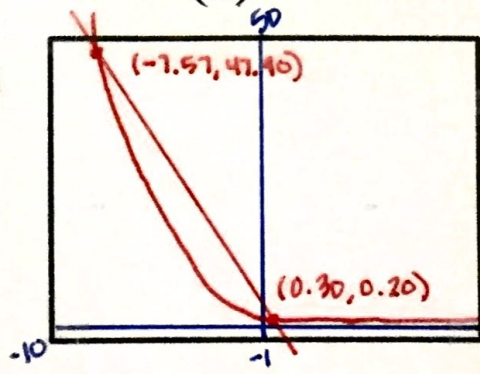
(26.25, 12.75)

4.
 $f(x) = 5x + 4$
 $g(x) = 4^x$



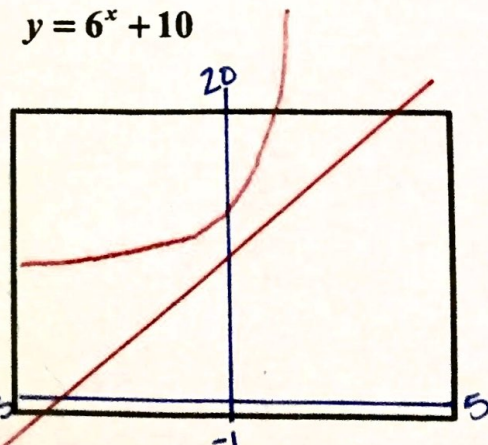
(-0.73, 0.37)
 (1.87, 13.35)

5.
 $f(x) = -6x + 2$
 $g(x) = \left(\frac{1}{2}\right)^{x+2}$



(-7.57, 47.40)
 (0.30, 0.20)

6.
 $-24x + 10y = 90$
 $y = 6^x + 10$



No Solution

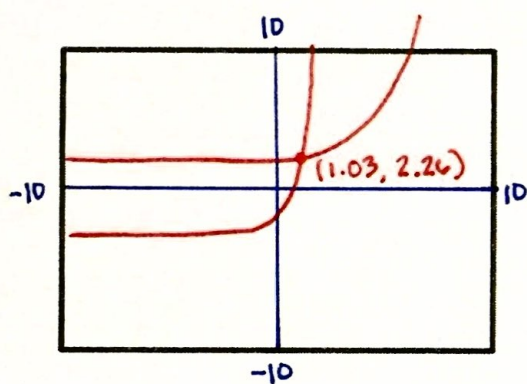
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Part 2: Use a graphing calculator to solve the system. Write the solution on your graph. Round the coordinates to the hundredths place, if necessary.

7.

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

$$g(x) = 2^{x-3} + 2$$

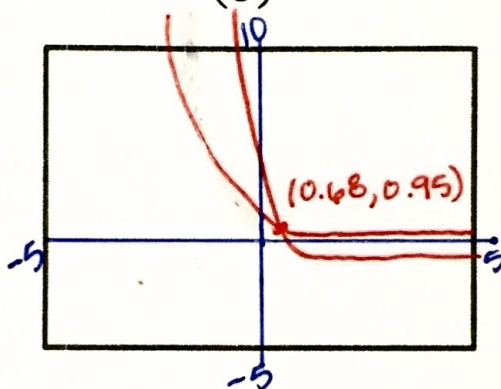


(1.03, 2.26)

8.

$$f(x) = 5\left(\frac{1}{4}\right)^x - 1$$

$$g(x) = 2\left(\frac{1}{3}\right)^x$$

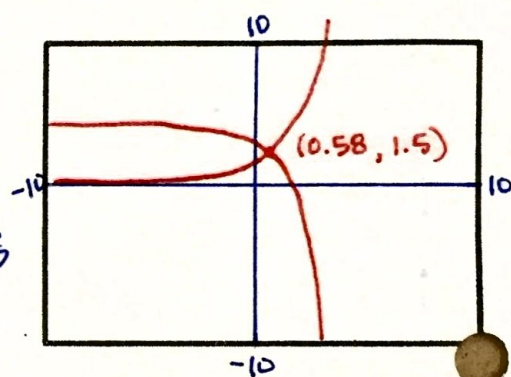


(0.68, 0.95)

9.

$$f(x) = 2^x$$

$$g(x) = -2^x + 3$$

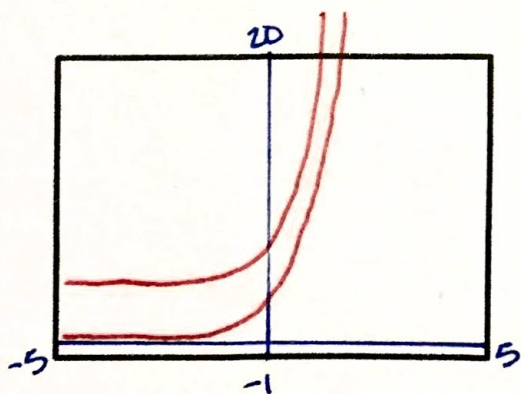


(0.58, 1.5)

10.

$$f(x) = 7^x + 4$$

$$g(x) = 7^x$$

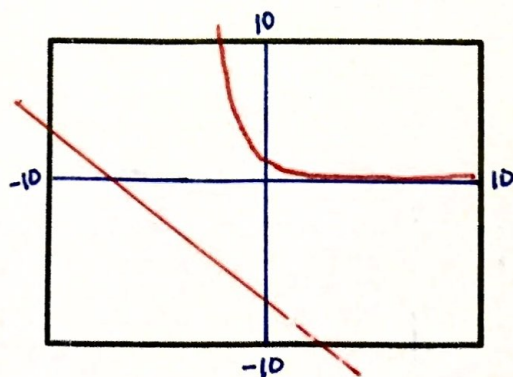


No Solution

11.

$$f(x) = \left(\frac{1}{3}\right)^x$$

$$g(x) = -x - 7$$



No Solution