

READY, SET, GO!

Name _____

Period _____

Date _____

READY

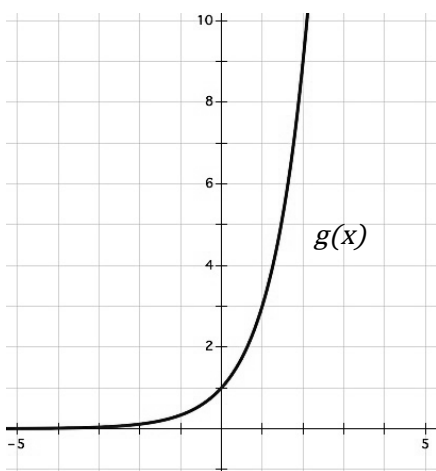
Topic: Interpreting function notation to find the output or input based on what is given

For each function, find the indicated values.

1. Given: $h(t) = 2t - 5$

a. $h(-4) = \underline{\hspace{2cm}}$ b. $h(t) = 23, t = \underline{\hspace{2cm}}$ c. $h(13) = \underline{\hspace{2cm}}$ d. $h(t) = -33, t = \underline{\hspace{2cm}}$

2.



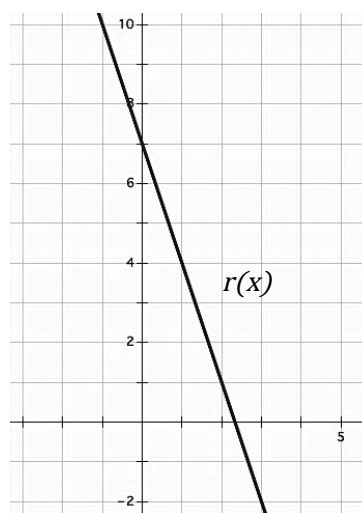
a. $g(2) = \underline{\hspace{2cm}}$

b. $g(x) = 3, x = \underline{\hspace{2cm}}$

c. $g(0) = \underline{\hspace{2cm}}$

d. Write the explicit rule for $g(x)$.

3.



a. $r(-1) = \underline{\hspace{2cm}}$

b. $r(x) = 4, x = \underline{\hspace{2cm}}$

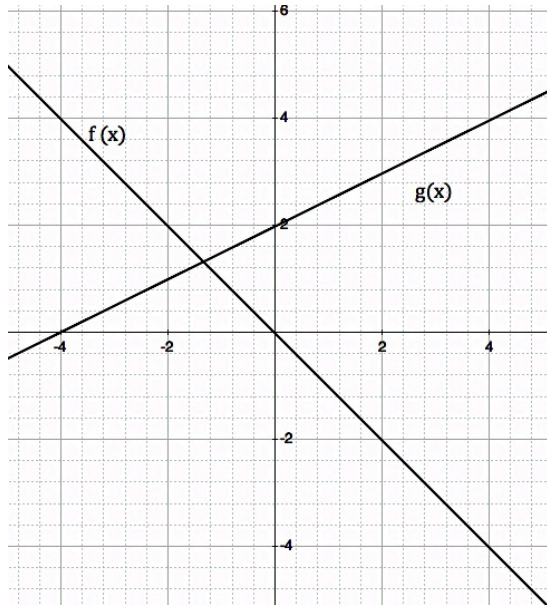
c. $r(2) = \underline{\hspace{2cm}}$

d. Write the explicit rule for $r(x)$.**SET**

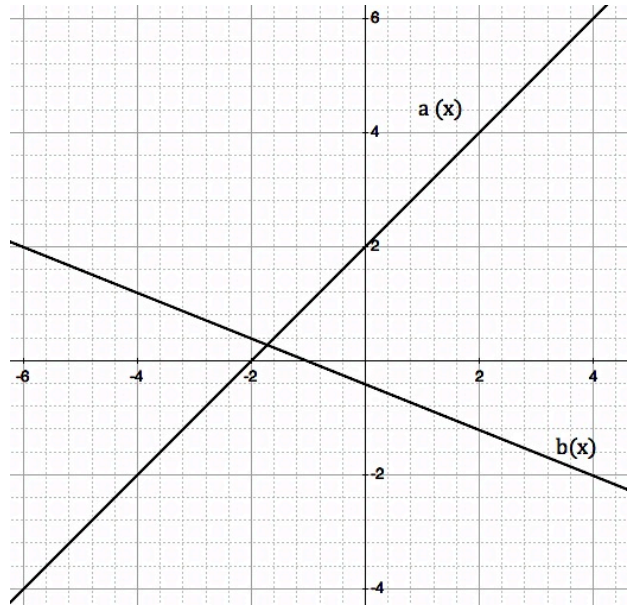
Topic: Adding functions

Two functions are graphed. Graph a new function on the same grid by adding the two given functions.

4. $h(x) = f(x) + g(x)$



5. $s(x) = a(x) + b(x)$



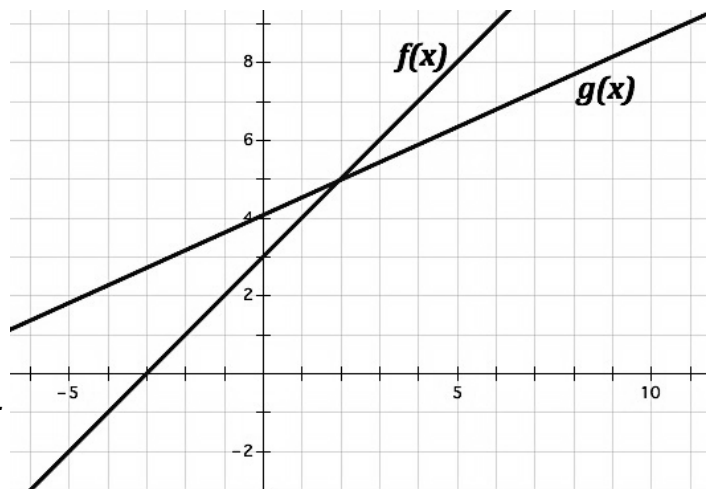
5. Use the graph to answer the following questions.

a. Where does $f(x) = g(x)$?

b. What is $f(4) + g(4)$?

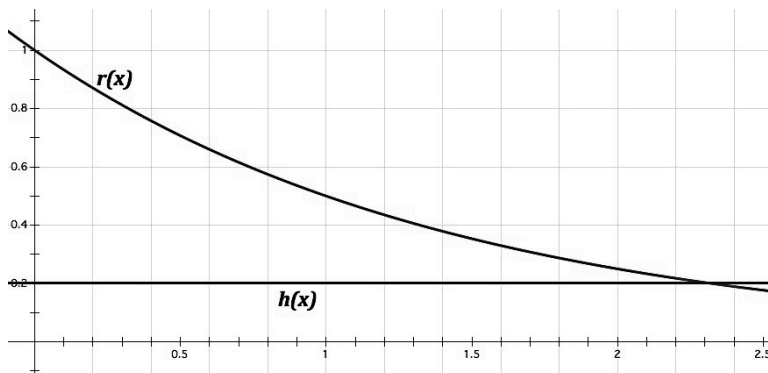
c. What is $g(-2) - f(-2)$?

d. State the interval where $g(x) > f(x)$.



6. Use the graph to answer the following questions.

- Where is $r(x) > h(x)$?
- What is $r(1) - h(1)$?
- What is $r(0) + h(0)$?
- Write an explicit rule for $r(x)$ and for $h(x)$.
- Sketch $r(x) - h(x)$ on the graph.



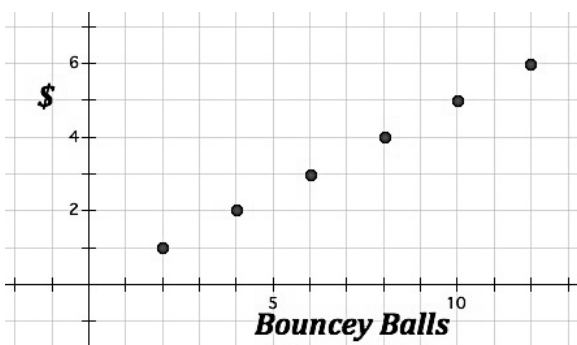
GO

Topic: Distinguishing between discrete and continuous functions

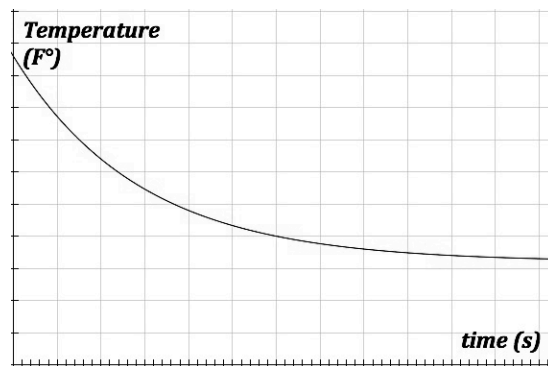
For each context or representation determine whether it is discrete or continuous or could be modeled best in a discrete or continuous way. Justify your answer.

8. Susan puts exactly \$5 a week in her piggy bank.

9.



10.



11. Marshal tracks the number of hits he gets each baseball game and is recording his total number of hits for the season in a table.

12. The distance you have traveled since the day began.

13.

Number of gumballs	Cost
5	10¢
10	20¢
15	30¢
20	40¢

14. Stephen deposited \$1,000 in a savings account at the bank when he turned 21. He deposits \$100 each month. He plans to never withdraw any money until the balance is \$150,000.