MAT126 Math Interludes
Topic #12: Functions (Part 2)

Student Name:_____
Due Date:_____

For #1 to #12, use the following functions to find the values. Show all work.

$$\boldsymbol{d(x) = -x^2 + x - 2}, \qquad \boldsymbol{f(x) = 2x^2 + 3x - 1}, \qquad \boldsymbol{g(x) = \frac{1}{2}x + 5}, \qquad \boldsymbol{h(x) = -7x - 3}$$

1. Find the value of $f(3)$.	**2.** Find the value of $d(-1)$.	**3.** Find the value of $h(2)$.
4. Find the value of x such that $h(x) = 74$.	**5.** Find the value of x such that $g(x) = 9$.	**6.** Find the value of $d(4)$.
7. Find the value of $g(24)$.	8. Find the value of $f(0)$.	**9.** Find the value of x such that $h(x) = 11$.
10. Find the value of $h(-2)$.	**11.** Find the value of $f(-3)$.	**12.** Find the value of x such that $g(x) = -13$.

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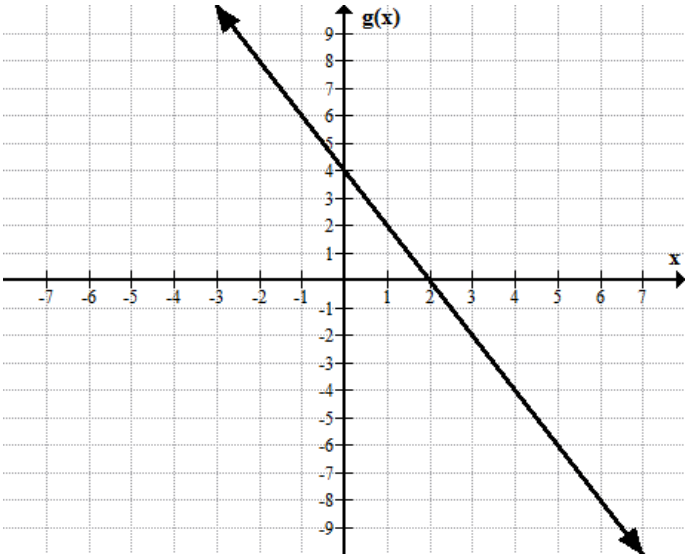
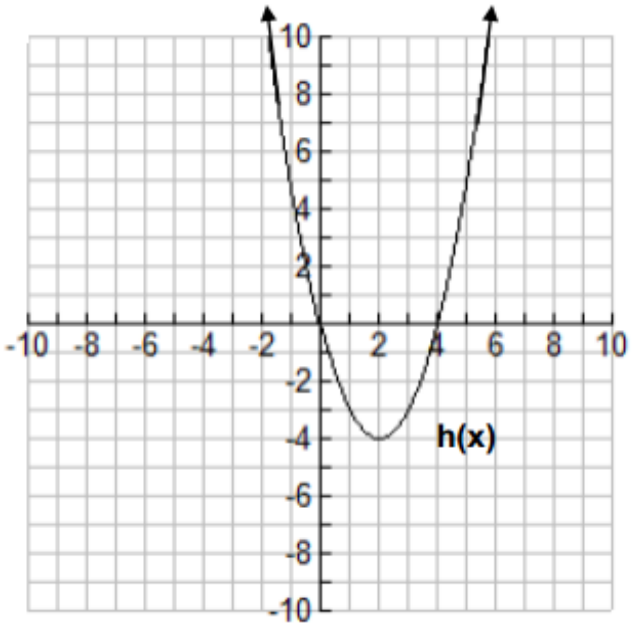
Use the graphs of g(x) and h(x) to answer the questions below.





1. What is x when $g(x) = 2$?
2. What is the value of $g(3)$?
3. What is the value of $g(6)$?
4. What is x when $g(x) = -2$?
5. What is the value of $h(1)$?
6. What is x when $h(x) = -4$?
7. For what values of x is $h(x) = 5$?
8. What is the value of $h(4)$?