

**Thanksgiving IM1 Homework**

Name \_\_\_\_\_ PER \_\_\_\_\_ DATE \_\_\_\_\_

Hello and happy Thanksgiving! In the spirit of giving, here is a chance to reassess on a standard that has been locked!

Complete the attached practice. *HALF* of the answers are going to be posted online on Monday, November 19<sup>th</sup>, 2018.

(tajimasolis.weebly.com → Integrated Math 1 → HW)

The assignment is going to be collected on Monday, November 26<sup>th</sup> and if it is completed, you may retake a locked standard.

Have a great week and I look forward to ending the semester on a strong note!

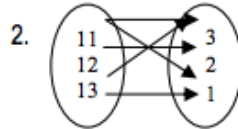
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**FUNCTIONS**

Write your answers in the spaces provided.

Identify the domain and range of the given relation. Then tell whether the relation is a function. If the relation is a function, tell whether it is a one-to-one function.

1.  $(1, 1), (2, 2), (3, 3), (4, 4)$



3.

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: Yes or No

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: Yes or No

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

Function: Yes or No

**Evaluating Functions**

Show work when necessary. Then, write your answers in the space provided.

Given the functions below find the value of each of the following.

$$f(x) = 2x^3 - 3x^2 + 4$$

$$h(x) = -3x + 9$$

4.  $f(-1) =$  \_\_\_\_\_

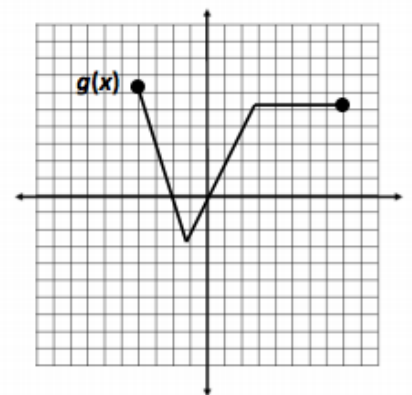
5.  $h(3) =$  \_\_\_\_\_

6.  $f(3) =$  \_\_\_\_\_

7.  $x$  when  $g(x) = 6$

8.  $g(3) =$  \_\_\_\_\_

9.  $g(2) =$  \_\_\_\_\_



**SOLVING EQUATIONS**

*Show your work and box your answers in the space below.*

1.  $6x + 7 = 8x - 13$

2.  $2(x - 3) + 5 = 3(x - 1)$

**Solving Literal Equations:**

1. Solve for  $x$ :  $y = 3x - 7$

2. Solve for  $R$ :  $I = PRT$

3. Solve for  $z$ :  $x = \frac{yz}{4}$

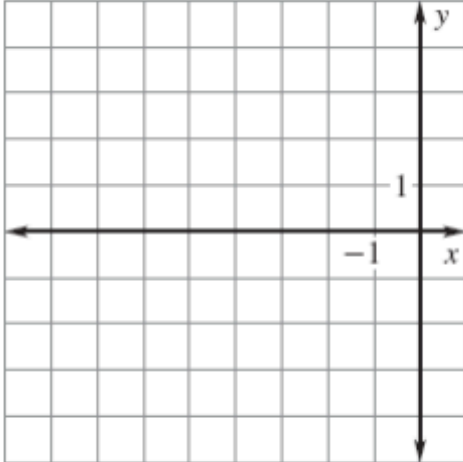
4. Solve for  $y$ :  $10x - 4y = 20$

**TRANSFORMATIONS**

Draw and label the original triangle  $ABC$  and then draw and label the image of triangle  $ABC$ .

The vertices of  $\triangle ABC$  are  $A(3,1)$ ,  $B(1,5)$ , and  $C(5,3)$ . Graph the image of  $\triangle ABC$  after a composition of the transformations in the order they are listed.

- 10) Translation:  $(x,y) \rightarrow (x+3, y-5)$   
Reflection: in the  $y$ -axis



- 11) Translation:  $(x,y) \rightarrow (x-6, y+1)$   
Rotation:  $90^\circ$  about the origin

