

## JENGA - Finals Review

If  $g(x) = |3x - 2|$ , find  $g(-2)$

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$$\begin{aligned} g(-2) &= |3(-2) - 2| \\ &= |-6 - 2| \\ &= |-8| \\ g(-2) &= 8 \end{aligned}$$

Given the output, find the input.  
 $f(x) = -12x + 4$ ,  $f(x) = 52$

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$$\begin{aligned} 52 &= -12x + 4 \\ -4 &\quad -4 \\ \hline 48 &= -12x \\ -12 &\quad -12 \\ \hline -4 &= x \end{aligned}$$

Evaluate the function given the table.

	f	g	h
-3	2	4	-6
-2	0	5	7
-1	3	6	-9
0	0	7	0

Find  $h(-1)$

Evaluate the function given the table.

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Find  $h(-1)$

$-9$

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If  $g(x) = 5$ , then  $x =$  \_\_\_\_\_

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If  $g(x) = 5$ , then  $x =$   $-2$

Write as a verbal expression.  
One less than triple the input.

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$3x - 1$

Write as a verbal expression.  
The output is six more than three times the input.

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$$6 + 3x$$

or

$$3x + 6$$

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(-5, 4) and (-5, 6)

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$$\frac{6-4}{-5-5} = \frac{2}{0} = \text{undef}$$

Find the slope between the points.  
(-10, 2) and (-3, -5)

Find the slope between the points.  
(-10, 2) and (-3, -5)

$$\frac{-5-2}{-3-10} = \frac{-7}{-7} = -1$$

Simplify the expression:  
 $10 \div 2 \times 7 - 3$

Simplify the expression:

$$10 \div 2 \times 7 - 3$$

$$5 \times 7 - 3$$

$$35 - 3$$

$$\boxed{32}$$

Distribute and combine like terms:

$$-3(x - 5) + 6x - 2$$

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$$-3(x - 5) + 6x - 2$$

$$-3x + 15 + 6x - 2$$

$$3x + 13$$

Solve for x:

$$\frac{x}{2} = 5$$

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$$2 \cdot \frac{x}{2} = 5 \cdot 2$$

$$\boxed{x = 10}$$