

## Practice Test Algebra 1 Answer Key

Item Position	Item Type	TEKS Alignment	Maximum Number of Points	Correct Answer(s)
1	Multiple Choice	A1.1.11.B	1	B
2	Multiple Choice	A1.2.3.E	1	D
3	Hotspot	A1.4.7.A	2	(-1, 0) and (3, 0) Recognized that the x-intercepts are located where the graph crosses the x-axis, which are (-1, 0) and (3, 0). See Appendix 1.1
4	Multiple Choice	A1.3.2.I	1	A
5	Multiple Choice	A1.5.9.D	1	C
6	Multiple Choice	A1.4.6.C	1	B

7            Inline Choice            A1.5.9.B            1            A

10	Multiple Choice	A1.3.5.B	1	C
11	Multiple Select	A1.1.10.E	2	A: $x + 3$ D: $2x + 5$ See Appendix 1.3
12	Multiple Choice	A1.4.6.A	1	A
13	Multiple Choice	A1.3.2.C	1	D
14	Multiple Choice	A1.4.7.B	1	D

15            Hot Text            A1.2.3.C            2            Slope: 2  
y-intercept: -4  
See Appendix 1.4

20	Multiple Choice	A1.2.3.B	1	D
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A graph of a quadratic function is shown. What are the x-intercepts of the function?

Select TWO correct answers.

A store manager adjusts the price of an item each week that the item goes unsold. The price of the unsold item, in dollars, after  $x$  weeks can be modeled by the exponential function



The graph of a linear function is shown.

What are the slope and the y-intercept that best represent this linear function?

Move the correct answer to each box. Each answer may be used more than once. Not all answers will be used

-4   -2   -0.5   0.5   2   4

Slope: 2

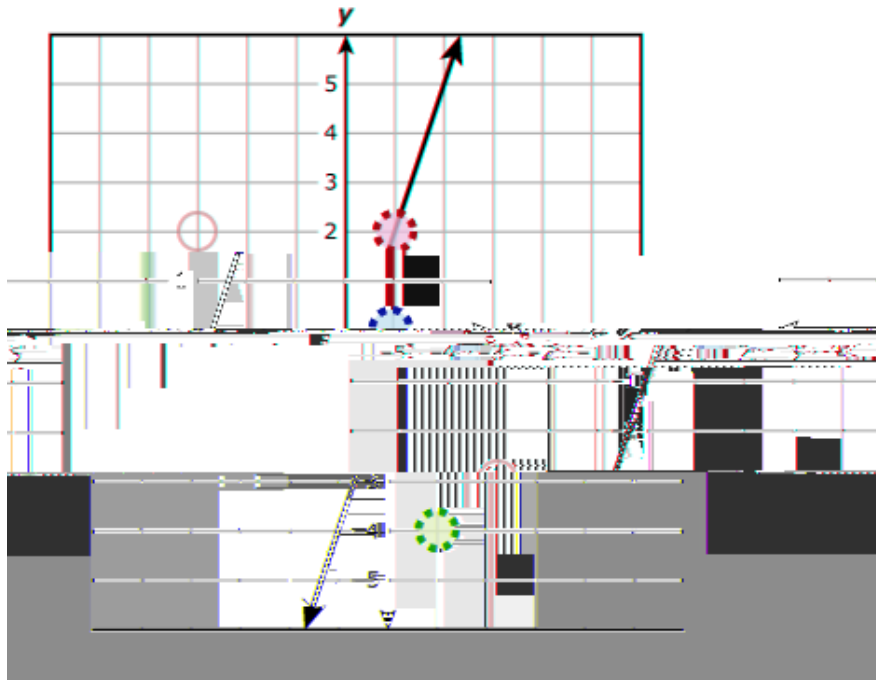
y-intercept: ~~TNM: 144T5~~ ~~5~~ ~~NM: 144T4~~ ~~4~~ ~~HT7TLL~~ ~~HM1757vT~~ ~~T~~ ~~TMT5~~ ~~M~~

1.6

The graph of  $3x - y = 1$  is shown on the grid.

Which points are in the feasible region of  $3x - y \geq 1$ ?

Select **THREE** correct answers.



The function  $f(x) = x^2$  was transformed to create the function  $g(x) = f(x - 2) + 5$ . Complete the sentence about this transformation.

Choose the correct answer from each drop-down box to complete the sentence.

The graph of  $f$  is translated 2 units right \_\_\_\_\_ and 5 units up \_\_\_\_\_ to create the graph of function  $g$ .

Indicate whether each statement is an example of association, causation, both association and causation, or neither association nor causation.

Select the correct answer in each row.

Statement	Association Only	Causation Only	Both Association and Causation	Neither Association nor Causation
As the outside temperature in degrees Celsius increases, the number of minutes it takes for a bowl of ice cream to melt decreases.				
As the sales				

is  $y = -x + .9$  parallel to line

\$ 6! 9%

?



A sample of a substance with an initial mass of 963 grams is decaying at a rate of 27% per hour.

Create a function that can be used to find  $y$ , "

3 # 2

. ( ' G  
 4 5 6 + - H  
 7 8 9 = > >  
 ) )? 0 \$%  
 -

In the expression shown,  $x$  is a value where the expression is defined. ~~356 503 4005~~

Wv5T T 0

1.13

Write the equation of the line that passes through the points  $(-1, 2)$  and  $(0, 1.5)$ .

Write the equation of the line in slope-intercept form.

Complete the

equation by dragging the correct answer to each box. Not all answers will be used.

Move the cor

2 -1.5 -0.5 0.5 1.5 2 3 -3 -2

$$f(x) = -0.5x + -1.5$$