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PRAC ~ TIS Math ©

MENU Grade 9 Algebra

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Domain 1 Review

Math Preparation Review

Domain 2 Review

Domain 3 Review

Domain 4 Review

Domain 5 Review

Practice Units

	<u>Item</u>	<u>Domain</u>	<u>CC Codes</u>
1.	Add and Subtract Replacement Sets	1	A-CED.1; REI.1
2.	Add and Subtract Unknowns	1	A-CED.1; REI.1
3.	Add/Subtract Polynomials	1	A-APR.1, .7
4.	Add/Subtract Solve	1	A-CED.1; REI.1
5.	Associative Property	1	A-CED.1; REI.1
6.	Finding Unknowns	1	A-CED.1; REI.1
7.	Evaluate and Simplify	1	A-SSE.1.B
8.	Algebraic Expressions	1	A-SSE.1, .2
9.	Commutative/Associative Properties	1	A-SSE.1.B
10.	Commutative?Associative Properties II	1	A-SSE.1.B
11.	Multiplying Polynomials	1	A-APR.A.1
12.	Solving For Polynomials (Division)	1	A-APR.2
13.	Factoring Polynomials	1	A-APR.1, .2
14.	Factoring Difference of Squares	1	A-REI.4.B
15.	Expressions/Powers/Equations	1	A-APR.5; CED.1; SSE.1
16.	Solve in Lowest Radical Form	1	A-SSE.2
17.	Stopping Distance	1	A-CED.1
18.	Finding Solutions/Exponents	1	A-APR.1
19.	Defining Functions	1	A-REI.A.1
20.	Evaluating Range and Domain	1	F-IF.A.1
21.	Finding Sequence Values	1	F-IF.1, .2, .3
22.	Writing Functions	1	F-IF.8.B
23.	Mathematical and Scientific Formulas	1	A-CED.A.4
24.	Calculating Rate of Change	2	F-IF.6
25.	Rate of Change	2	A-REI.B.3; F-LE.A.1b
26.	Key Features of a Function	2	A-CED.A.2
27.	Graphing Linear Inequalities	2	A-REI.C.6, .7
28.	Systems of Equations	2	A-REI.C.6
29.	Plotting Trend Lines	2	S-ID.6, .6.C, .9
30.	Trend and Correlations	2	S-ID.6.B
31.	Causation and Correlation	2	S-ID.6.B
32.	Domain and Range	3	F-IF.A.1

33.	Graphing Domain and Range	3	F-IF.1
34.	Graphing Data From Tables	3	A-REI.D.10
35.	Graphing Pass Through Points	3	A-REI.D.10
36.	Graphing Pass Through Points II	3	A-CED.1
37.	Solve (Add, Subtract, Divide)	3	A-CED.; REI.1
38.	Solve Equations (Division)	3	A-CED.; REI.1
39.	Solve for Unknown	3	A-CED.; REI.1
40.	Tables Graphs Equations	3	A-REI.B.3; F-LE.A.1b
41.	Writing Linear Equations Using Graphs	3	A-CED.A.1
42.	Writing Equations/Expressions	3	A-CED.A.1
43.	Writing Equations Using Data Points	3	F-IF.B.6
44.	Writing and Solving Equations	3	A-CED.1; REI.1
45.	Equating Graphs and Tables	3	A-CED.1
46.	Solving for Direct Variation I	3	A-CED.1; F-IF.B.3, .5, .6
47.	Solving for Direct Variation II	3	A-CED.1; F-IF.B.3, .5, .6
48.	Solving for Direct Variation III	3	A-CED.1; F-IF.B.3, .5, .6
49.	Proportional Relationships	3	A-CED.A.1
50.	Constant Rates of Proportionality	3	F-LE.A.1, .B
51.	Graphing Parallel Lines	3	F-LE.B.5; F-IF.5
52.	Graphing Parallel Lines II	3	A-CED.A.2
53.	Graphing Intersections From Equations	3	A-REI.D.11
54.	Graphing Perpendicular Intersections	3	A-REI.D.11
55.	Graphing 'x' and 'y' Equations	3	F-LE.B.5
56.	Linear Inequalities in Two Variables I	3	A-REI.B.3
57.	Linear Inequalities in Two Variables II	3	A-REI.B.3
58.	Linear Inequalities in Two Variables III	3	A-REI.B.3
59.	Linear Inequalities in Two Variables IV	3	A-REI.B.3
60.	Graphing Systems of Two Linear Equations	3	A-REI.C.6
61.	Graphing Systems of Two Linear Equations II	3	A-REI.C.6
62.	Intersecting Lines	3	A-REI.5, .6
63.	Equivalent Fractions	3	A-REI.1
64.	Evaluate and Solve	3	A-CED.1; REI.1
65.	Mixed Practice	3	A-CED.1; REI.1
66.	Mixed Problems with Equations	3	A-CED.1; REI.1
67.	Multiply and Add	3	A-CED.1; REI.1
68.	One Variable Equations	3	A-REI.A.1, .B.3
69.	Perimeter and Area	3	A-CED.1; REI.1
70.	Simplify and Evaluate	3	A-SSE.1
71.	Solving Variable Equations	3	A-REI.B.3
72.	Solving Linear Equations/Inequalities	3	A-REI.B.3
73.	Solving quadratic Functions and Equations	4	A-SSE.B.3a, b

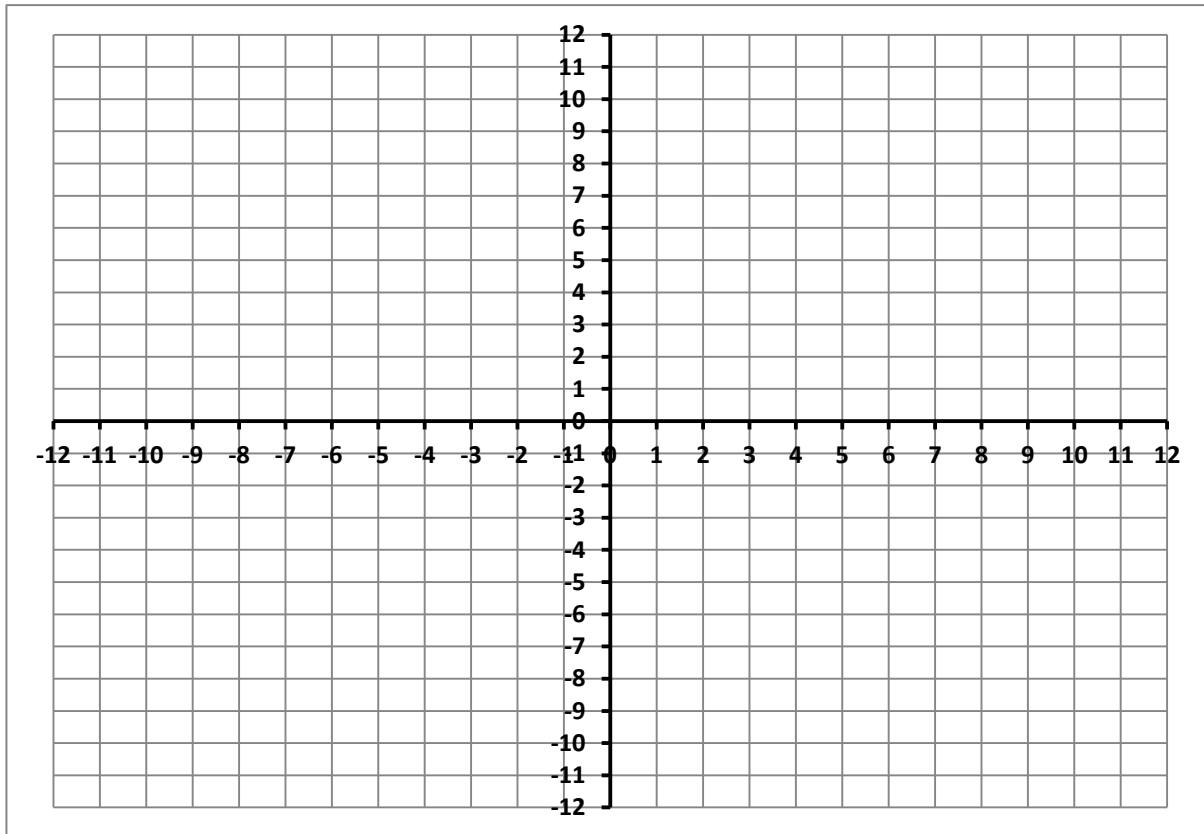
74.	Graphing Parabolas	4	F-IF.7.A
75.	Quadratic Functions/Vertex Form	4	A-REI.4.A, .B
76.	Solving Quadratic Equations By Factoring	4	A-REI.4.B
77.	Graphing Exponential Equations	5	F-LE.A.2, .B.5
78.	Solving Exponential Problems	5	F-LE.A.1a, .B, .C

Name: _____

Date: _____

S/N 702

Graph the inequality ($y < -3x - 2$) on the coordinate plane below and shade in the appropriate area.



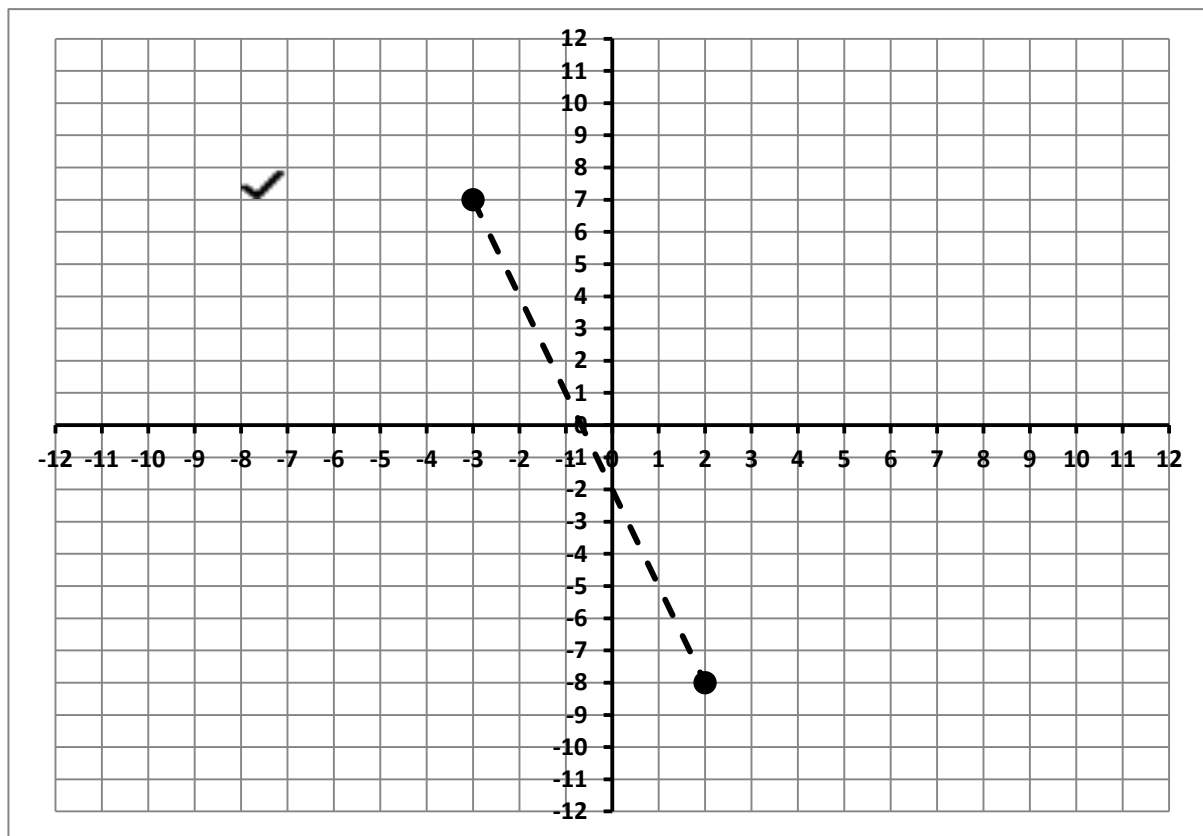
1. What is the slope of the inequality? _____
2. Is it a solid or a dotted line? _____
3. Should it be shaded above or below the line? _____
4. Is the slope positive or negative? _____

S/N 702

TEKS A2H; A3D

Domain 3

Graph the inequality ($y < -3x - 2$) on the coordinate plane below and shade in the appropriate area.



1. What is the slope of the inequality? - 3
2. Is it a solid or a dotted line? dotted
3. Should it be shaded above or below the line? below
4. Is the slope positive or negative? negative



S/N 9538

Teacher Key

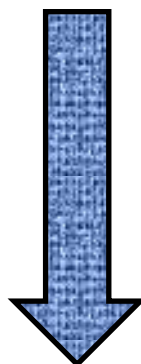
<u>Page Number</u>	<u>Unit Number</u>	<u>Answer</u>	<u>Domain</u>	<u>CC Codes</u>
1.	1.	D	2	A-REI.D.10, .12
2.	2.	B	2	F-IF.7.A
3.	3.	D	2	A-REI.3
4.	4.	B	2	F-IF.A
5.	5.	B	2	F-IF.7.A
6.	6.	C	2	A-APR.B.3; SSE.B.3a
7.	7.	B	2	A-REI.C.6
8.	8.	A	2	F-IF.B.6; F- LE.I.B
9.	9.	C	2	F-IF.B.4; F- LE.B.5
10.	10.	D	2	F-IF.4, .6
11.	11.	B	2	F-IF.4, .5, .6
12.	12.	D	2	F-IF.4
13.	13.	C	2	F-IF.7




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Date : _____

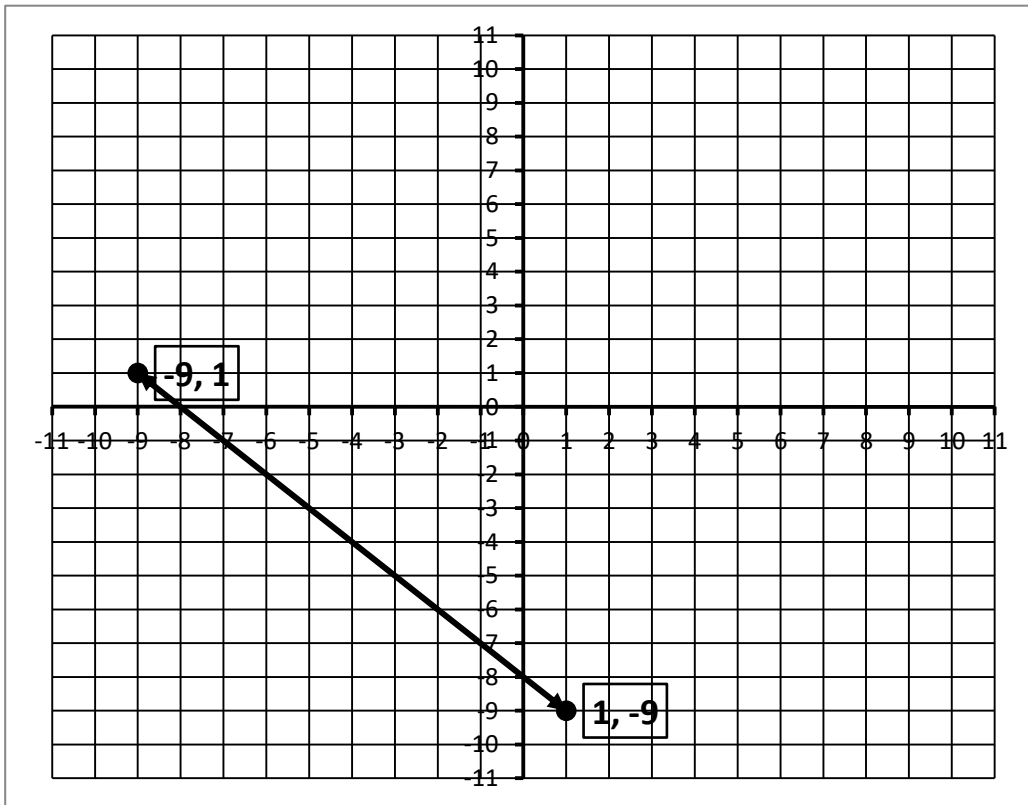
Student Name : _____

A blue banner with a rolled-up edge effect, containing the word "Algebra" in white, bold, sans-serif font.

Go To The Next Page When Told 

Continue 

6. The graph of linear function g is shown on the coordinate grid below.



Which of the answers below reflects the zero of g ?

A (0, -8)

B (8, 0)

C (-8, 0)

D (1, 0)

A

B

C

D



S/N 4775

Teacher Key

<u>Page Number</u>	<u>Unit Number</u>	<u>Answer</u>	<u>Domain</u>	<u>CC Codes</u>
1.	1.	A	2	A-REI.D.10, .12
2.	2.	B	1	A-SSE.3A
2.	3.	C	1	A-SSE.A.3
3.	4.	C	3	A-REI.3
3.	5.	C	1	A-SSE.3.A
4.	6.	C	4	F-IF.7.A
5.	7.	C	4	A-REI.4.B; F- IF.8.A
5.	8.	D	2	F-IF.7.A
6.	9.	A	4	A-CED.2
6.	10.	A	1	A-SSE.1
7.	11.	D	4	F-IF.A.2
8.	12.	A	2	A-REI.3
9.	13.	A	2	F-IF.A
10.	14.	B	2	F-IF.7.A
10.	15.	A	5	F-IF.7.A
11.	16.	B	1	F-IF.A.1, .2
12.	17.	B	2	A-APR.B.3; SSE.B.3a
13.	18.	A	2	A-REI.C.6
14.	19.	C	4	F-LE.A.1.C
15.	20.	B	1	F-IF.A.3
15.	21.	C	3	A-REI.C.5
16.	22.	B	5	F-IF.7.D
17.	23.	D	3	F-IF.A.2
18.	24.	C	3	A-REI.C.6
19.	25.	D	4	A-CED.A.1
19.	26.	B	3	A-REI.C.5
20.	27.	D	2	F-IF.B.6; F- LE.I.B
20.	28.	C	3	A-REI.C.5
21.	29.	B	4	A-REI.D.11
22.	30.	C	2	F-IF.B.4; F- LE.B.5

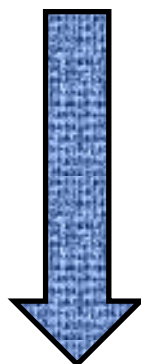



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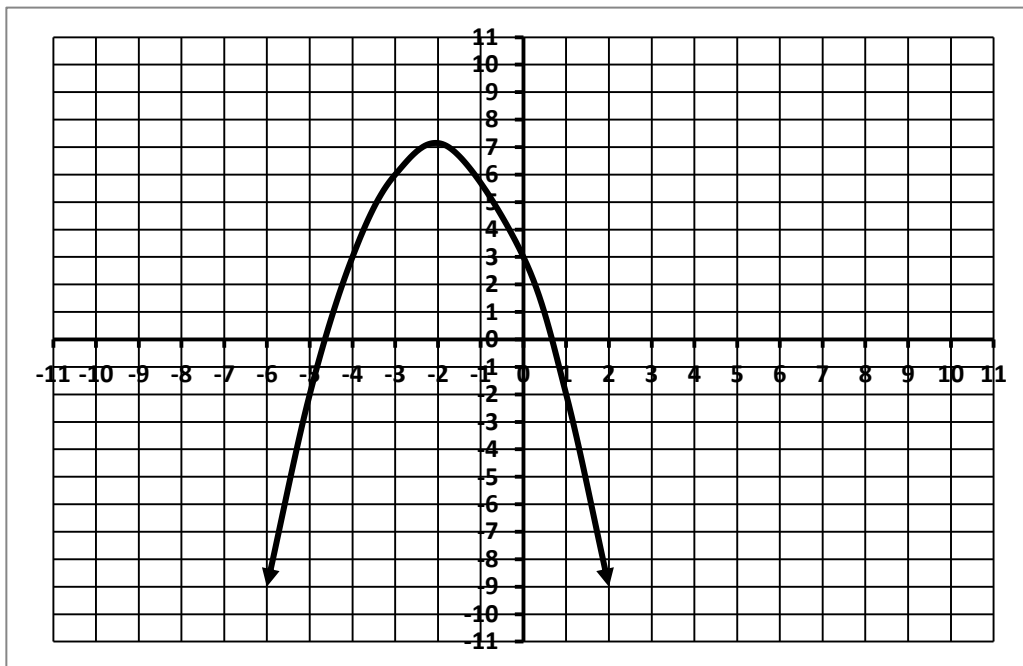
Algebra



Go To The Next Page When Told 

Continue 

6. The graph of a quadratic function (f) is shown on the coordinate grid below.



What is the y intercept of the graph of (f)?

A (0, -3)

B (3, 0)

C (0, 3)

D (-4, 3)



Continue 

7. Which quadratic function in vertex form below can be represented by a graph that has a vertex at $(-2, -5)$ and passes through the point $(4, -2)$?

A $y = 1/2(x - 2)^2 + 5$

B $y = 1/2(x + 2)^2 + 5$

C $y = 1/2(x + 2)^2 - 5$

D $y = 1/2(x + 5)^2 + 2$



8. The quadratic equation $(y = x^2 - 5x - 14)$ is given. Which equation below best represents the axis of symmetry?

A $x = -2.5$

B $y = 2.5$

C $y = -2.5$

D $x = 2.5$

