PRAC~TIS Math©

COMPONENTS ON EACH FLASH DRIVE

- Menu of ALL Algebra II TEKS

Click specific TEK for:

- Practice Worksheets **with Teacher Answer Key**

(To Individualize Worksheets, click "delete" key and All problem data CHANGES. See samples)

- Domain Reviews (10 problems

(To Individualize Domain Reviews, click "delete" key and All problem data CHANGES. See samples)

-Math Preparations Review

- 50 Question Version
- 30 Question Version
(To Individualize Math Preparation Reviews, click "delete" key and All problem data CHANGES. See samples)

Individualize all students work with one click of the "delete" key. Answer keys coded with student pages for ease of organization

PRINT AND GO!

No more searching for more practice problems

Click Here For User Guide

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MENU Algebra II

Math Preparation Review

Click Here For User Guide

Domain 1 Review	Domain 3 Review	Domain 5 Review
Domain 2 Review	Domain 4 Review	Domain 6 Review

Practice Units

More

	Item	Domain	TEKS
1.	Add and Subtract Imaginary Numbers	1	2A.7A
2.	Graphing Domain and Range	1	2A.7A
3.	Imaginary Numbers and Square Roots	1	2A.7A
4.	Multiply and Divide Imaginary Numbers	1	2A.7A
5.	Dividing Polynomials	1	2A.7C, F, H
6.	Complex Fractions and Rational Expressions	1	2A.7D, F; .6I
7.	Factoring Difference of Squares	1	2A.7D
8.	Factoring Equations	1	2A.7D, E
9.	Solving Linear Equations/Inequalities	1	2A.7D
10.	Solving For Polynomials (Division)	1	2A.7C, D, F
11.	Solving Variable Equations	1	2A.7D
12.	Factoring Polynomials	1	2A.7E
13.	Factoring and Simplifying Expressions	1	2A.7E, F; .4F
14.	Inverse Equations	2	2A.2A, B, C, D
15.	Solving For Unknowns	2	2A.2A, B, C, D

Practice Units (Cont'd)

More

	Item	Domain	TEKS
16.	Graphing Quadratics	2	2A.2A; .6G; .7I
17.	Cubic Roots (+, -, x, ÷)	2	2A.2B
18.	Graphing Exponential Equations	2	2A.8B; .5D
19.	Matrix Add/Subtract	3	2A.3B
20.	Matrix Inverses and Determinants	3	2A.3B
21.	Matrix Multiplication	3	2A.3B
22.	Solving Quadratic Functions and Equations	3	2A.3C
23.	Solving Quadratics and Roots For Equations	3	2A.3C
24.	Inequalities Review	3	2A.3E, G
25.	Linear Inequalities in Two Variables I	3	2A.3E, G
26.	Linear Inequalities in Two Variables II	3	2A.3E, G
27.	Graphing Linear Inequalities	3	2A.3F
28.	Systems and Inequalities	3	2A.3E, G; .4H
29.	Writing Equations (Power Functions)	4	2A.4A
30.	Focus - Vertex - Directrix of Parabolas	4	2A.4B
31.	Graphing Parabolas	4	2A.4B
32.	Graphing Parabolas II	4	2A.4B
33.	Vertex in Standard Form	4	2A.4B; .8B
34.	Graphing Square Root Functions	4	2A.4C
35.	Quadratic Functions/Vertex Form	4	2A.4D
36.	Solving Quadratic Equations By Factoring	4	2A.4E, F
37.	Completing The Square	4	2A.4F
38.	Quadratic Equations, Imaginary, Real and Square Roots	4	2A.4F

Practice Units (Cont'd)

More

	Item	Domain	TEKS
39.	Solving Square Root By Squaring	4	2A.4F
40.	Solve in Lowest Radical Form	4	2A.4G
41.	Graphing Logarithms	5	2A.5A
42.	Solving Exponential Problems	5	2A.5A, B, C
43.	Logarithm Review	5	2A.5B, C
44.	Condense Logs	5	2A.5C
45.	Condensing Logarithms	5	2A.5C
46.	Expanding Logarithms	5	2A.5C
47.	Evaluating Logs	5	2A.5C
48.	Expanding Logs	5	2A.5C
49.	Powers Logs	5	2A.5C
50.	Reverse - Powers Logs	5	2A.5C
51.	Solve Logs Multiply/Divide	5	2A.5C, E
52.	Solve Logs with Parenthesis	5	2A.5C, E
53.	Exponential Equations I	5	2A.5D
54.	Exponential Equations II	5	2A.5D
55.	Growth and Decay (Graphing Exponentials)	5	2A.5D
56.	Natural Base E	5	2A.5F
57.	Graphing Cubic Functions	6	2A.6A, B
58.	Factoring Cubes and Squaring Expressions	6	2A.5B,; .6B
59.	Graphing Absolute Values	6	2A.6C, E
60.	Solving Absolute Value Equations/Inequalities	6	2A.6E, F
61.	Graphing Inequalities	6	2A.6G
62.	Graphing Systems of Two Linear Equations	6	2A.6G

Practice Units (Cont'd)

	Item	Domain	TEKS
63.	Graphing Systems of Two Linear Equations II	6	2A.6G; .7I
64.	Horizontal and Vertical Asymptotes	6	2A.6G, K
65.	Graphing Rational Expressions - Asymptotes	6	2A.6G

Practice Worksheets

Algebra II **Matrix Inverses and Determinants**

Domain 3

TEKS 2A.3B

Name: **Date:**

S/N 318

Find the inverse of the following.

1. $\begin{bmatrix} -4 & -3.5 & 2 \\ -5 & -5 & 3 \\ 2 & 2 & -1 \end{bmatrix}^{-1}$ **Inverse:**

2. $\begin{bmatrix} -9 & 5 \\ 6 & 3 \end{bmatrix}^{-1}$ **Inverse:**

Evaluate to find the determinant.

3. $\begin{bmatrix} 5 & 0 \\ -2 & 5 \end{bmatrix}$ = _____

4. $\begin{bmatrix} -2 & 4 & 6 \\ 1 & 2 & 3 \\ -4 & 2 & 6 \end{bmatrix}$ = _____

Algebra II **Matrix Inverses and Determinants**

Teacher Key

S/N 318

TEKS 2A.3B
Domain 3

Find the inverse of the following.

1. $\begin{bmatrix} -4 & -3.5 & 2 \\ -5 & -5 & 3 \\ 2 & 2 & -1 \end{bmatrix}^{-1}$ **Inverse:** $\begin{bmatrix} -2 & 1 & -1 \\ 2 & 0 & 4 \\ 0 & 2 & 5 \end{bmatrix}$

2. $\begin{bmatrix} -9 & 5 \\ 6 & 3 \end{bmatrix}^{-1}$ **Inverse:** $\begin{bmatrix} 1 & 2/3 \\ 2 & 3 \end{bmatrix}$

Evaluate to find the determinant.

3. $\begin{vmatrix} 5 & 0 \\ -2 & 5 \end{vmatrix}$ = **25**

4. $\begin{vmatrix} -2 & 4 & 6 \\ 1 & 2 & 3 \\ -4 & 2 & 6 \end{vmatrix}$ = **-24**

Practice Worksheets

Algebra II **Matrix Inverses and Determinants**

Domain 3 TEKS
2A.3B

Name: **Date:**

S/N 418

Find the inverse of the following.

1. $\begin{bmatrix} 2 & 1 & 3 \\ 5 & 2 & 3 \\ 0 & 1 & 8 \end{bmatrix}^{-1}$ **Inverse:** ☐

2. $\begin{bmatrix} 2 & 3 \\ 3 & 4 \end{bmatrix}^{-1}$ **Inverse:** ☐

Evaluate to find the determinant.

3. $\begin{bmatrix} 3 & 6 \\ 2 & 1 \end{bmatrix}$ = _____

4. $\begin{bmatrix} 5 & 1 & -2 \\ -1 & 0 & 4 \\ 2 & -3 & 3 \end{bmatrix}$ = _____

Algebra II **Matrix Inverses and Determinants**

Teacher Key

S/N 418

TEKS 2A.3B
Domain 3

Find the inverse of the following.

1. $\begin{bmatrix} 2 & 1 & 3 \\ 5 & 2 & 3 \\ 0 & 1 & 8 \end{bmatrix}^{-1}$ Inverse: $\begin{bmatrix} 13 & -5 & -3 \\ -40 & 16 & 9 \\ 5 & -2 & -11 \end{bmatrix}$

2. $\begin{bmatrix} 2 & 3 \\ 3 & 4 \end{bmatrix}^{-1}$ Inverse: $\begin{bmatrix} -4 & 3 \\ 3 & -2 \end{bmatrix}$

Evaluate to find the determinant.

3. $\begin{vmatrix} 3 & 6 \\ 2 & 1 \end{vmatrix} =$ **- 15**

4. $\begin{vmatrix} 5 & 1 & -2 \\ -1 & 0 & 4 \\ 2 & -3 & 3 \end{vmatrix} =$ **65**

Print Today's Date and Your Name Below:

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Student Name : _____

Algebra II
Domain 6 Review

Go To The Next Page When Told

S/N 9355

Teacher Key

S/N 9355

Page Number	Unit Number	Answer	Domain	TX Codes
1.	1.	C	6	2A.6B
1.	2.	C	6	2A.6G, K
2.	3.	A	6	2A.6G, K
2.	4.	D	6	2A.6G, K
3.	5.	B	6	2A.6F
3.	6.	B	6	2A.6E
4.	7.	D	6	2A.6I
5.	8.	B	6	2A.6C, E
6.	9.	0	6	2A.6A, B
7.	10.	B	6	2A.6G
8.	11.	D	6	2A.6G

Continue

3. Which equation below has a domain of $x \neq 5$, whose vertical asymptote is $x = 5$, whose horizontal asymptote is $y = 0$ and where $N < D$?

A. $f(x) = 3/(x - 5)$

B. $f(x) = x^2/(x + 5)$

C. $f(x) = 5x/(x - 3)$

D. $f(x) = 3/(x^2 - 25)$

A B C D

4. What is the vertical asymptote in the expression $f(x) = (x + 5)/(x - 3)(x + 2)$?

A. $x = -3, 2$

B. $x = -3, -2$

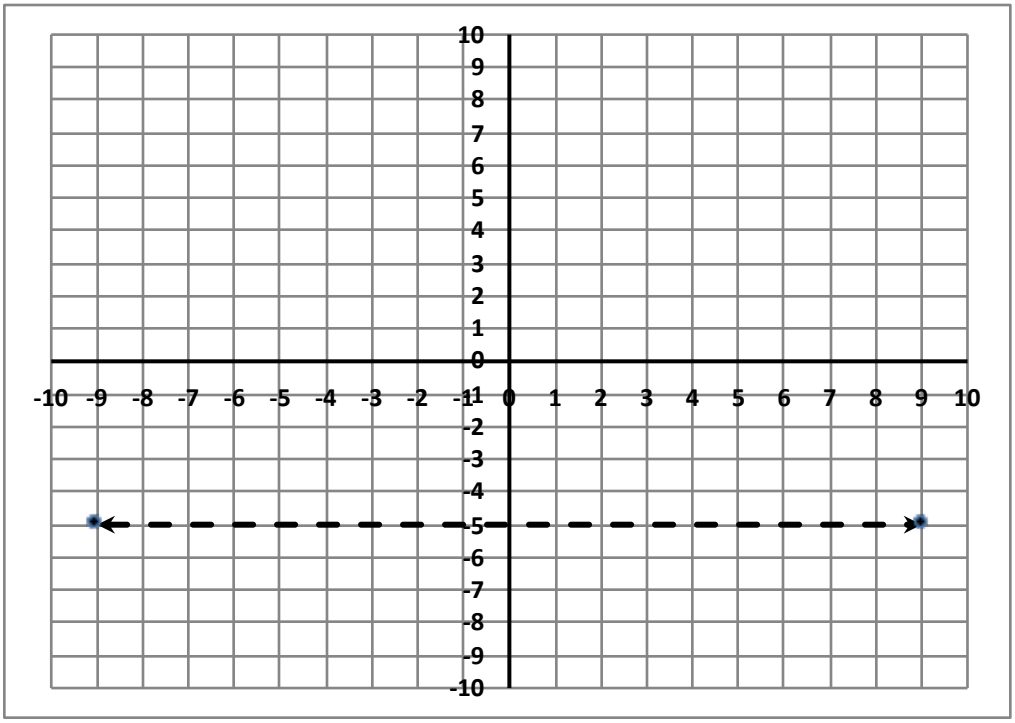
C. $x = 3, 2$

D. $x = 3, -2$

A B C D

Continue

10.



Which equation below is correct for the graph shown with a dotted line and shaded up?

A. $y > 5$

B. $y < -5$

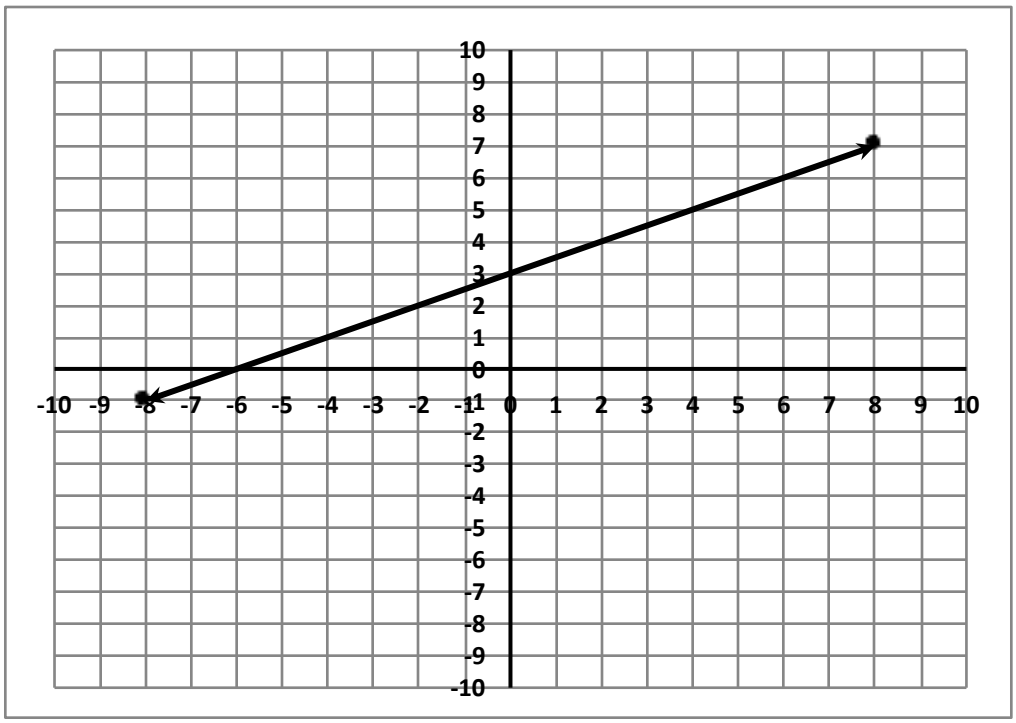
C. $y \geq 5$

D. $y \leq -5$

A B C D

Continue

11.



Which equation below is correct for the graph shown with a solid line and shaded down?

A. $y \leq -1/2x + 3$

B. $y \leq 1/2x - 3$

C. $y < 1/2x - 3$

D. $y \leq 1/2x + 3$

A B C D

Algebra II **Domain 6 Other Functions, Equations and Inequalities**

Same Domain with one click of and entir new set of problems

Teacher Key

S/N 6837

Page Number	Unit Number	Answer	Domain	TX Codes
1.	1.	A	6	2A.6B
1.	2.	D	6	2A.6G, K
2.	3.	B	6	2A.6G, K
2.	4.	D	6	2A.6G, K
3.	5.	A	6	2A.6F
3.	6.	B	6	2A.6E
4.	7.	D	6	2A.6I
5.	8.	C	6	2A.6C, E
6.	9.	0	6	2A.6A, B
7.	10.	A	6	2A.6G
8.	11.	A	6	2A.6G

One Click of the delete key and an you create and entirely new set of problems

Continue

3. Which equation below has a domain of $x \neq 6$, whose vertical asymptote is $x = 6$, whose horizontal asymptote is none and where N > D?

A. $f(x) = 2/(x - 6)$

B. $f(x) = x^2/(x - 6)$

C. $f(x) = 6x/(x - 4)$

D. $f(x) = (6x^2 + 3)/(x - 1)$

A B C D

4. What is the vertical asymptote in the expression $f(x) = (x - 2)/(x + 2)$?

A. $x = 2$

B. $x = 1$

C. $x = -1$

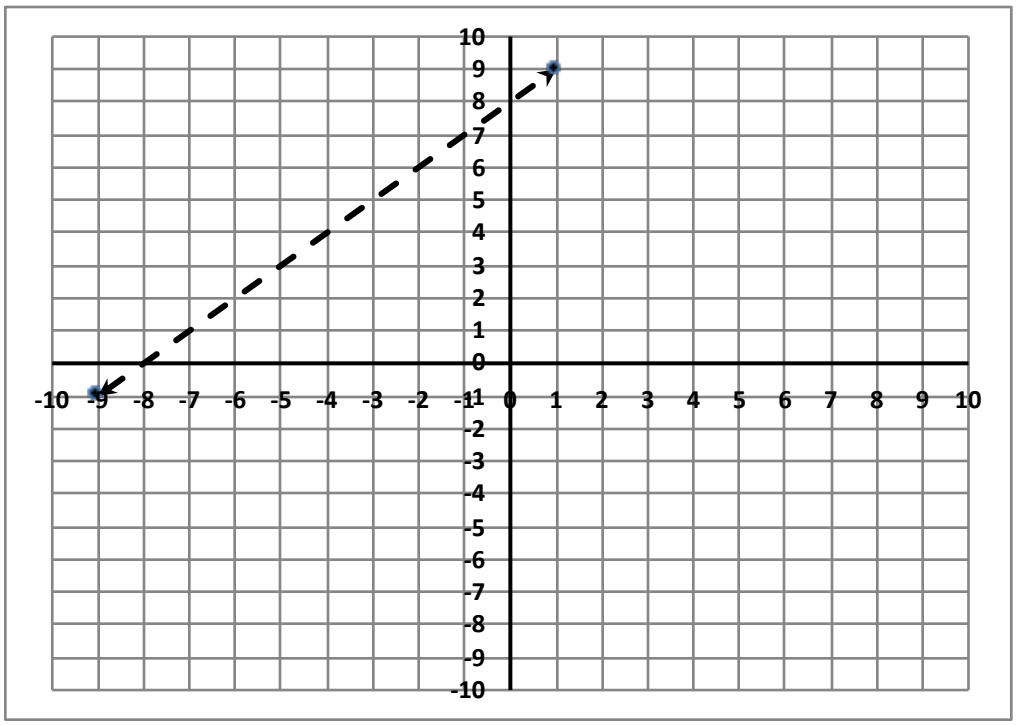
D. $x = -2$

A B C D

One Click of the delete key and an you create and entirely new set of problems

Continue

10.



Which equation below is correct for the graph shown with a dotted line and shaded down?

A. $y < x - 8$

B. $y > x + 8$

C. $y \leq x - 8$

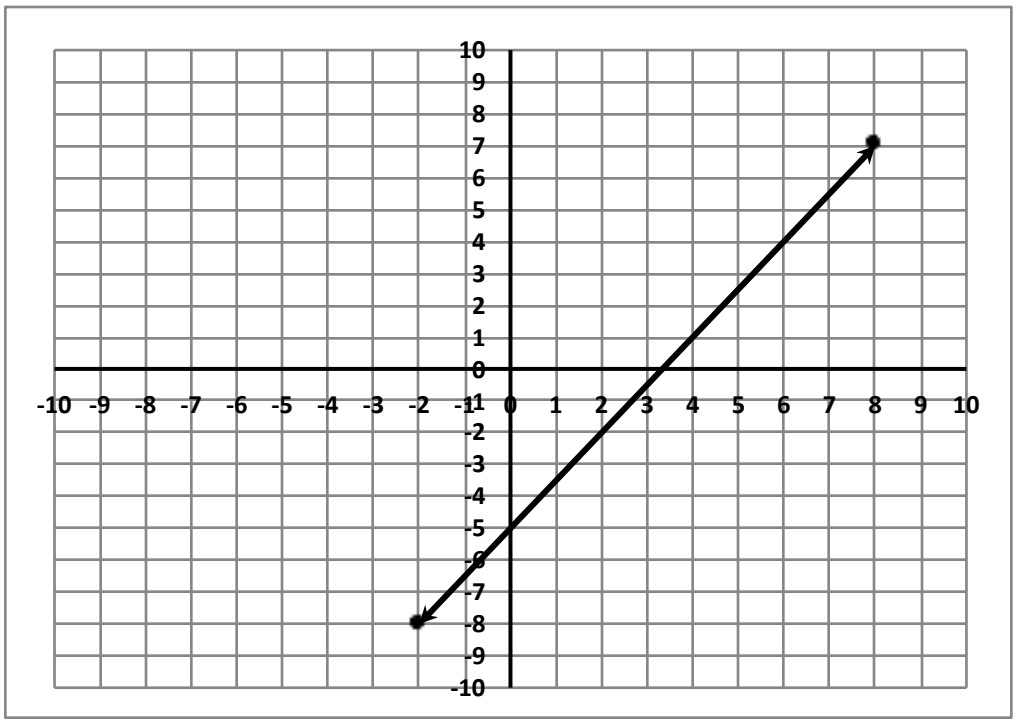
D. $y \geq x + 8$

A B C D

One Click of the delete key and an you create and entirely new set of problems

Continue

11.



Which equation below is correct for the graph shown with a solid line and shaded down?

A. $3x - 2y \leq 10$

B. $3x + 2y \leq 10$

C. $3x + 2y \geq 10$

D. $3x - 2y \leq -10$

A B C D

Print Today's Date and Your Name Below:

Date : _____

Student Name : _____

Algebra II

Go To The Next Page When Told

S/N 8508

Algebra II

Math Preparation Review (Algebra II)

One Click of the delete key and an you create and entirely new set of problems

Teacher Key

S/N 8508

Page Number	Unit Number	Answer	Domain	TX Codes
1.	1.	B	4	2A.4D
1.	2.	C	1	2A.7A
2.	3.	D	1	2A.7A
2.	4.	B	1	2A.7A, D
3.	5.	B	2	2A.2B
3.	6.	A	4	2A.4F
4.	7.	A	6	2A.6B
4.	8.	B	1	2A.7d
5.	9.	C	4	2A.4A
5.	10.	A	4	2A-4A
6.	11.	C	5	2A.5C
6.	12.	A	5	2A.5C
7.	13.	A	5	2A.5C
7.	14.	A	5	2A-.5C
8.	15.	C	6	2A.6G, K
8.	16.	C	6	2A.6G, K
9.	17.	A	6	2A.6G, K
9.	18.	C	3	2A.3B
10.	19.	A	3	2A.3A
10.	20.	B	3	2A.3C, D
11.	21.	A	6	2A.6F
11.	22.	D	6	2A.6E
12.	23.	B	6	2A.6I
12.	24.	C	1	7D, F, G; .4F
13.	25.	D	4	2A.4F; .7F,G
14.	26.	C	1	2A.7C
14.	27.	D	1	2A.7B
15.	28.	C	4	2A.4B
15.	29.	B	4	2A.4B
16.	30.	C	4	2A.4B
16.	31.	A	2	2A.2A, C
17.	32.	B	5	2A.5F
17.	33.	D	5	2A.5A
18.	34.	C	2	2A.2C
18.	35.	A	1	2A.7D

Teacher Key

S/N 8508

Page Number	Unit Number	Answer	Domain	TX Codes
19.	36.	A	1	2A.7D
19.	37.	D	3	2A.3C
20.	38.	A	6	2A.6C, E
21.	39.	A	6	2A.6A, B
22.	40.	A	5	2A.5A
23.	41.	A	4	2A.4B
24.	42.	D	1	2A.7I; .6G
25.	43.	A	4	2A.4C
26.	44.	B	6	2A.6G
27.	45.	B	2	2A.8A, B; .5A, D
27.	46.	D	3	2A.3E
28.	47.	C	3	2A.3B
28.	48.	C	4	2A.4F
29.	49.	D	4	2A.4F
30.	50.	C	6	2A.6G

One Click of the delete key and an you create and entirely new set of problems

Begin

1. Given the vertex point (3, 5), f(1) = -3, which equation in vertex form below is correct?

A. $y = -2(x + 3)^2 + 5$

B. $y = -2(x - 3)^2 + 5$

C. $y = -2(x + 5)^2 + 3$

D. $y = 2(x + 5)^2 - 3$

A B C D

2. Solve the imaginary number problem below by using addition or subtraction.

$(10 + 15i) + (-8 - 6i)$

A. $2 - 9i$

B. $-2 + 9i$

C. $2 + 9i$

D. $-2 - 9i$

A B C D

One Click of the delete key and an you create and entirely new set of problems

Continue

19. Solve the systems of equations below for *x and y* and the point of intersection. Then select the correct answer.

$2x = 3y - 1$ • $3x + y = 15$

A. x = 4, y = 3, (4, 3)

B. x = 4, y = -3, (4, -3)

C. x = 3, y = 4, (3, 4)

D. x = -3, y = 4, (-3, 4)

A B C D

20. Solve for *x* , the quadratic equation by the linear equation below. Then select the correct answer.

$y = 2x^2 - 12x + 23$ • $y = 4x - 7$

A. x = 5, x = -3

B. x = 5, x = 3

C. x = -5, x = -3

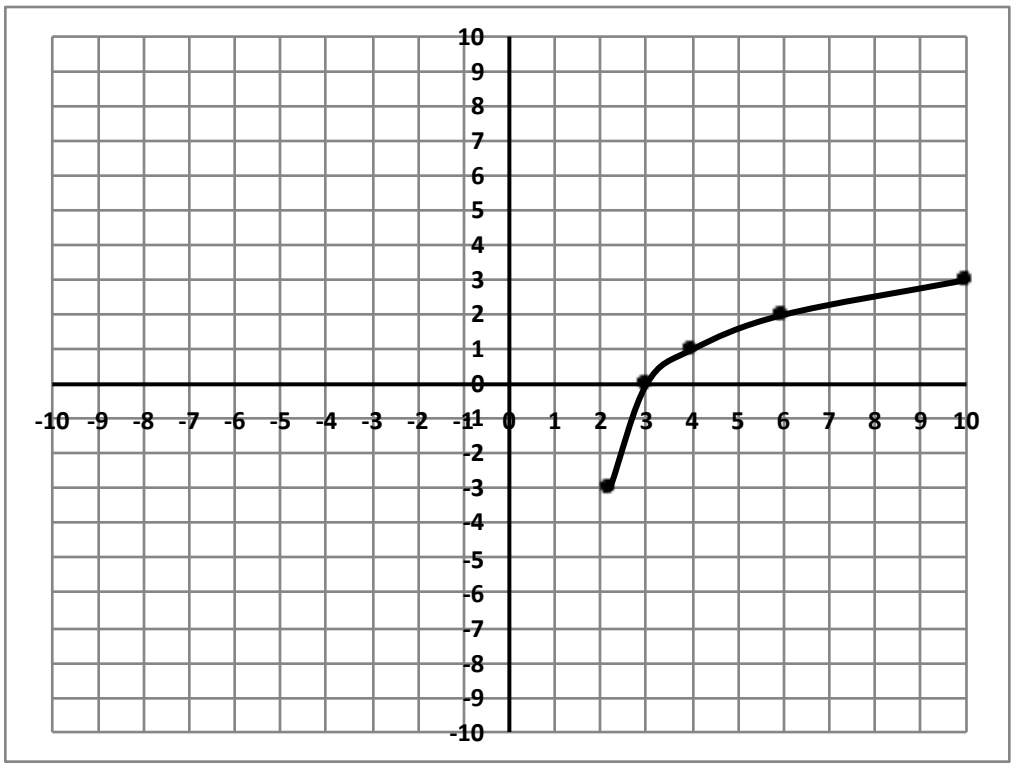
D. x = 5, x = -2

A B C D

One Click of the delete key and an you create and entirely new set of problems

Continue

40.



In the graph shown which logarithmic equation below is correct?

A. $y = \log_2 (x - 2)$

B. $y = \log_2 2(x - 2)$

C. $y = \log_2 2(x + 2)$

D. $y = \log_2 2(x)$

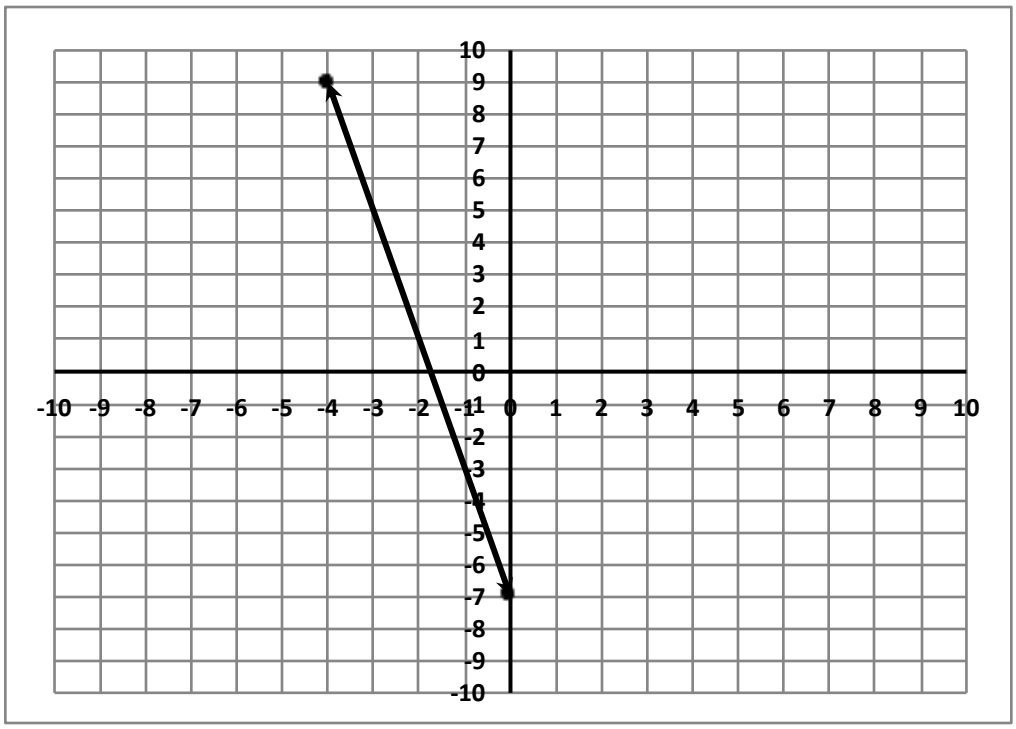
A B C D

Continue to Page 23

One Click of the delete key and an you create and entirely new set of problems

Continue

50.



Which equation below is correct for the graph shown with a solid line and shaded up?

A. $4x + y \leq -7$

B. $4x - y \geq 7$

C. $4x - y \leq 7$

D. $4x + y \leq -7$

A B C D

Algebra II

Math Preparation Review (Algebra II)

One Click of the delete key and an you create and entirely new set of problems

Teacher Key

S/N 4721

Page Number	Unit Number	Answer	Domain	TX Codes
1.	1.	A	4	2A.4D
1.	2.	D	1	2A.7A
2.	3.	B	1	2A.7A
2.	4.	C	1	2A.7A, D
3.	5.	A	2	2A.2B
3.	6.	D	4	2A.4F
4.	7.	C	6	2A.6B
4.	8.	D	1	2A.7d
5.	9.	A	4	2A.4A
5.	10.	D	4	2A-4A
6.	11.	C	5	2A.5C
6.	12.	D	5	2A.5C
7.	13.	A	5	2A.5C
7.	14.	B	5	2A-.5C
8.	15.	A	6	2A.6G, K
8.	16.	D	6	2A.6G, K
9.	17.	B	6	2A.6G, K
9.	18.	A	3	2A.3B
10.	19.	A	3	2A.3A
10.	20.	C	3	2A.3C, D
11.	21.	D	6	2A.6F
11.	22.	B	6	2A.6E
12.	23.	A	6	2A.6I
12.	24.	B	1	7D, F, G; .4F
13.	25.	C	4	2A.4F; .7F,G
14.	26.	C	1	2A.7C
14.	27.	A	1	2A.7B
15.	28.	A	4	2A.4B
15.	29.	C	4	2A.4B
16.	30.	D	4	2A.4B
16.	31.	B	2	2A.2A, C
17.	32.	D	5	2A.5F
17.	33.	C	5	2A.5A
18.	34.	B	2	2A.2C
18.	35.	A	1	2A.7D

Algebra II

Math Preparation Review (Algebra II)

One Click of the delete key and an you create and entirely new set of problems

Teacher Key

S/N 4721

Page Number	Unit Number	Answer	Domain	TX Codes
19.	36.	D	1	2A.7D
19.	37.	A	3	2A.3C
20.	38.	D	6	2A.6C, E
21.	39.	B	6	2A.6A, B
22.	40.	A	5	2A.5A
23.	41.	C	4	2A.4B
24.	42.	B	1	2A.7I; .6G
25.	43.	B	4	2A.4C
26.	44.	B	6	2A.6G
27.	45.	B	2	2A.8A, B; .5A, D
27.	46.	C	3	2A.3E
28.	47.	B	3	2A.3B
28.	48.	A	4	2A.4F
29.	49.	B	4	2A.4F
30.	50.	A	6	2A.6G
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Math Preparation Review (Algebra II)

One Click of the delete key and an you create and entirely new set of problems

Begin

1. Given the vertex point (3, -4), f(7) = 0, which equation in vertex form below is correct?

   A. $y = 1/4(x - 3)^2 - 4$

   B. $y = -1/4(x - 3)^2 - 4$

   C. $y = 1/4(x - 4)^2 + 3$

   D. $y = -1/4(x + 4)^2 - 3$

   A ○ B ○ C ○ D ○

2. Solve the imaginary number problem below by using addition or subtraction.

   $(2 + 3i) - (5 + 4i) - (-6 - 5i)$

   A. $3 + 4i$

   B. $-3 + 4i$

   C. $-9 + 4i$

   D. $3 - 4i$

   A ○ B ○ C ○ D ○

Continue to Page 2

TX Codes	Q 1. 2A.4D	Q 2. 2A.7A	S/N 4721

One Click of the delete key and an you create and entirely new set of problems

Continue

19. Solve the systems of equations below for *x and y* and the point of intersection. Then select the correct answer.

$4y = 22 - 5x$ • $3x - 5y = -9$

A. x = 2, y = 3, (2, 3)

B. x = 2, y = -3, (2, -3)

C. x = 3, y = 2, (3, 2)

D. x = -3, y = 2, (-3, 2)

A B C D

20. Solve for *x* , the quadratic equation by the linear equation below. Then select the correct answer.

$y = 2x^2 - 12x + 23$ • $y = 4x - 7$

A. x = 5, x = -3

B. x = -5, x = 3

C. x = 5, x = 3

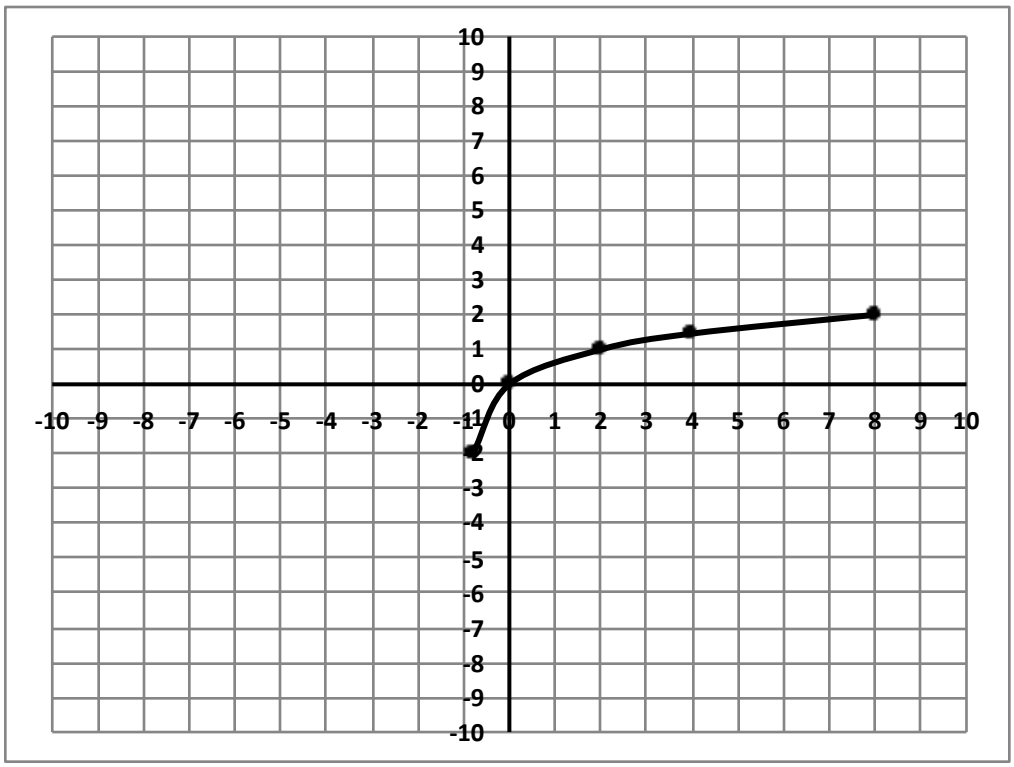
D. x = 5, x = -2

A B C D

One Click of the delete key and an you create and entirely new set of problems

Continue

40.



In the graph shown which logarithmic equation below is correct?

A. $y = \log_3 (x + 1)$

B. $y = \log_3 3(x + 1)$

C. $y = \log_3 3(x - 1)$

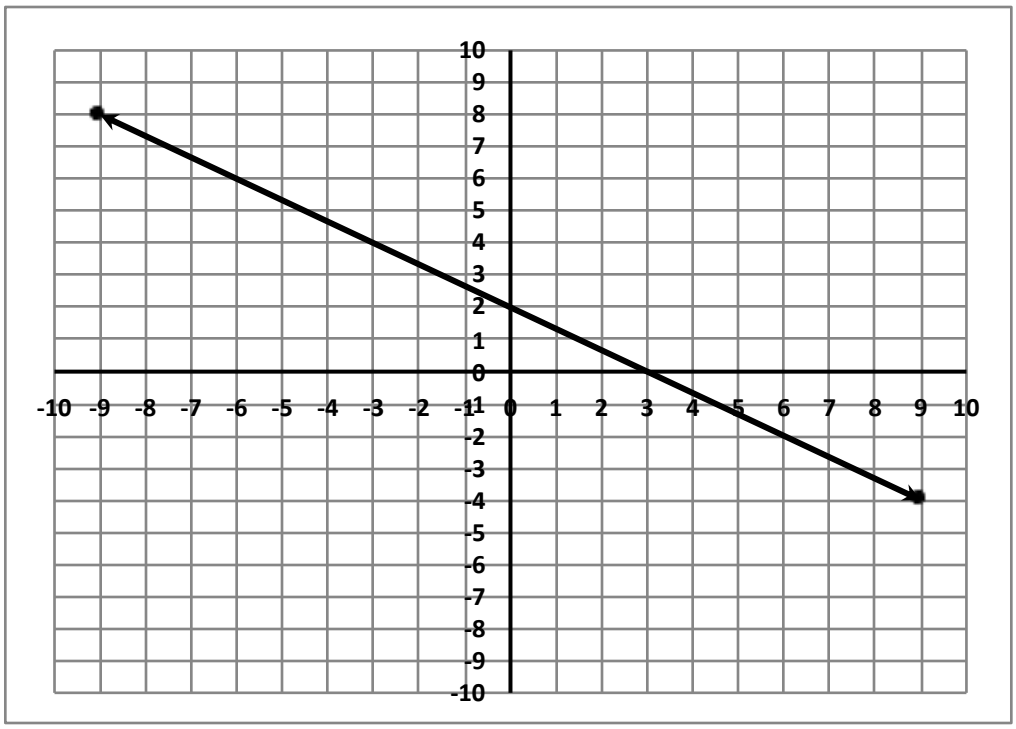
D. $y = \log_3 3x$

A B C D

One Click of the delete key and an you create and entirely new set of problems

Continue

50.



Which equation below is correct for the graph shown with a solid line and shaded up?

A. $2x + 3y \geq 6$

B. $2x + 3y \leq 6$

C. $2x + 3y \geq -6$

D. $2x + 3y > 6$

A B C D