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2.3	AR.1.2	AR.2.4	AR.1.3	AR.9.6	F£.3.2	7.8	8.5	N&Q.1.4	ΦP.1.3 ΦP.3.1
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AR.4.2 [26]		AR.2.5	AR.9.1			Ŧ.1.2		AR.3.4	
			AR.9.6			F.2.1			

ARI.2 Solve literal equations for a specified variable
R2:1 Write and solve one-variable multi-step linear equations
AR4.1 Write and solve one- variable absolute value equations

Teach other students why there are always two possible solutions when an absolute value expression equals a non-zero real number.

- Solve the literal equation for x. 2x +6y=4
 Solve the formula formu
- Solve the formula for v0. $a = \frac{v_1 - v_0}{v_1 - v_0}$

• Solve the formula for y. Ax + By = C

• You purchase 4 tickets to a basketball game for a game total of \$216.80. In addition to the cost per ticket, there is an arena fee of \$3.50 per ticket and a flat fee of \$3.00 to access all the tickets on a mobile device. Write and solve an equation to find the cost of each ticket x.

The average distance a car can travel using one gallon of gasoline is 28 miles. The actual distance the car can travel using one gallon of gasoline varies from the average by up to 3 miles. Write and solve an absolute value equation to find the minimum and maximum distances the car can travel using one gallon of gasoline.

Solve the equation.

a. $11 = \frac{x}{3} + 8$

b. -20 = 2x - 4 **c.** 3(x - 2) = -27

Make a plan for how to write and solve the equation for this word problem. A plumber charges a customer \$89 for a service call and \$78 for parts. The plumber also charges the customer \$50 per hour he is at the house. The customer's final bill is \$292. Write and solve an equation to find the number of hours the plumber was at the house.

Solve the equation.

a. |4x - 2| = 18 **b.** 3|2x| = 60

c. 6|2x-5|+10=34

· Solve the equation.

c. $-16 = \frac{x}{4}$

a. 76 = 19x b= x+24 = -38 c. $-16 = \frac{x}{4}$ d. 4(2-x)=3+2x e. 9-6(x+1)=-5x f. 8+x=2x-3(3-x)

g. 4(x-3)=2x+6 h. 3(2-x)=5x - 4x +6

SOLVING LINEAR

AR1.1 Identify and interpret parts of an expression AR2.6 Write and solve one-variable linear inequalities, including compound inequalities

- A height (in feet) of a ball t seconds after bouncing off the ground is given by the expression $-16t^2 + 24t$. How long does the bounce last? What is the maximum height of the bounce?
- Create a word problem involving a linear inequality

The value of a car that loses r % of its value (in dollars) in t years is represented by the expression $21,500(1-r)^{t}$.

a. What does the value 21,500 represent in the expression?

You save \$15 per week to purchase a bike. You already have \$45 saved up. Write and solve an inequality to find the number of weeks you need to save to purchase a bike if it costs at least \$120. Graph the solution.

You are hiring a catering company to serve meals to guests at a wedding reception. The company charges a deposit and cost per guest. The total cost of the company you hired can be modeled by the function y = 500 + 20x. Explain what each term might represent.

Twice the sum of a number and 2 is greater than 3 times the number minus 1. Write and solve an inequality. Graph the solution.

 You buy g pounds of grapes and a pounds of apples for a fruit salad. Grapes cost \$2.50 per pound, and apples cost \$3 per pound. Write an expression that represents the total amount you spend on grapes and apples.

Graph the inequality.

a. a<4 **b.** $b \ge -3$

c. $-2 \le c < 5$

Standards: SCa AR2 4 Given a table

equation, or description of a function, determine and

equation, or description of a function, determine and interpret its key features AR2.5 Solve and graph math ploblems that are modeled with linear functions. Interpret key features and determine domain constraints

F2.1 Identify the effects on a graph by comparing the equations

What is the domain and range of every linear function? Create a real-life problem that can be modeled by a linear function and has a domain constraint.

Use the graphs of f and g to describe the transformation from the graph of f to the graph of g

a. f(x) = |x|; g(x) = f(x) - 2 **b.** $f(x) = \frac{1}{3}x; g(x) = 3f(x)$ The cost of using a ride-sharing service can be represented by the function f(x) = 1.25x + 6.75, where f(x) represents the total cost of riding x miles using the service. You want to spend no more than \$100 for a ride.

a. Graph the function in terms of the context.
b. Find and interpret the range in this context.
c. Find and interpret the range in this context.
d. Identify and interpret the rate of change of the graph.
e. Identify and interpret the rate of change of the graph.

Graph the linear function represented by the table Find the domain and the service.

Graph Find t ident

oh the linear function represented by the table.		-2	-1	' '	
the domain and range of the function. Then	у	4	1.5	-3.5	-6
tify the intercepts and slope of the function.					_
- t t C t C C			- L. C	1	1

What type of transformation of $f(x) = x^2$ results in each function below. **a.** $g(x) = x^2 - 3$ **b.** $h(x) = \frac{1}{2}x^2$

Consider the linear function y = 4x + 2.

Consider the linear function y = 4x + 2.
a. Graph the function
b. Find the domain.
c. Find the range.
d. Identify the intercepts of the graph.
e. Identify the rate of change of the graph.

The graph of a linear function is shown. Identify

• Graph
$$y = -\frac{3}{2}x + 4$$
.

• Graph the linear function
$$2x + 3y = 3$$
.

b.
$$y = x^2 + 1$$

c.
$$y = |x - 2|$$

Standards:
AR2.2 Write a linear Scale equation to represent a relationship between two quantities uR2.2 Write a linear Quation or Pritten description of a linear function, graph that function, and the function at able, equation or Pritten description of a linear function, graph that function, and determine and interpret is key features DP2.4Fit a linear function to bivariate numerical data that suggests a linear association and interpret the slope and y-intercept

- Create a word problem that involves writing a linear two variable equation to represent the relationship between two quantities.

 • What is the domain and range of every linear function?
- A recording studio charges musicians an initial fee of \$100 to record an album. Studio time costs an
 additional \$60 per hour. Write an equation that represents the total cost y of recording an album for x
- additional solve for the formal and formal formal
- The table shows the weekly sales of a movie and the number of weeks since its release. a. Write an
 equation that models the movie sales as a function of the number of weeks since its release. b. Interpret
 the slope and y-intercept of the line of fit. c. Predict the sales of the movie 9 weeks after its release.



· Write an equation in standard form of the line

The graph of a linear function is shown.

Identify the intercepts and rate of change of the function.





Write the phrase as an expression. a. the sum of a number x and 2

• Graph
$$y = -\frac{3}{2}x + 4$$
.

Describe the correlation in the scatter plot.





SOLVING SYSTEMS

Standards:

AR2.2 Write a linear equation to represent a relationship between two quantities

AR9.1 Given a situation write and volve a system of linear equations algebraically or graphically AR9.6 Given a situation represent constraints as a system of linear equations or inequalities

> Create a word problem that involves writing a linear two variable equation to represent the relationship between two quantities.
>
> Create a system of linear equations with a solution of (6, 3).

 A recording studio charges musicians an initial fee of \$100 to record an album. Studio time costs an additional \$60 per hour. Write an equation that represents the total cost y of recording an album for x hours.

Adult tickets are \$10 each and child tickets are \$5 each for a concert. Eight hundred people

Adult tackets are \$10 each and child tackets are \$5 each for a concert. Eight hundred people attended the concert and the system of equations to find how many of each type of ticket were sold?

Game laws limit the number of fish you catch each day. The maximum number of perch you can catch each day is 25, and the maximum number of bass you can catch each day is 15. The total maximum number of fish you can catch each day is 30. Write a system of inequalities that represents the situation. Give an example of the numbers of perch and bass you can each hand a system of the perchand the system of the numbers of perch and bass you can each hand a system of the perchand the system of the numbers of perch and bass you can each hand a system of the perchand t catch in a day.

Write an equation in standard form of the line that passes
through the points in the table

3	x	-8	-4	0	4	8
	У	9	6	3	0	-3

Solve the system by graphing.

Solve the system by substitution.

y = x - 7

x + y = 21

-6x+y=-1 You have \$8.20 in nickels and dimes. You have 100 coins in total. Write a system of equations

that represents the problem. How many of each coin do you have?

• Write the phrase as an expression. a. the sum of a number x and x b. the product of -3 and a number x and x and

Standards:

AKS.4 Write an exponential function to represent a relationship from a graph, written description or a table ARS.3 Classify an exponential function as growth or decay ARS.6 Given a table, equation, or written description of an exponential function, graph that function and determine its ev features

• Teach other students how to find the initial value and the growth factor of an exponential function when given a graph, written description, or a table of values for the

Teach someone how to classify an exponential function as an exponential growth or

decay function.

You deposit \$600 in an account that earns 9% annual interest compounded monthly. Write a function m that represents the balance (in dollars) of the account after t years.

• The table shows the bacteria population in a petri dish after t hours. Write an exponential function that models the data.

t 0 1 2 3 4 f(t) 4 8 16 32 64

a. The function $f(x) = 25,000(0.985)^x$ represents the estimated population of a town x years after 2020. Determine whether the function represents exponential growth or exponential decay.

Graph the exponential function represented by the table, equation, or written

description. Identify characteristics of the exponential function and its graph.

$$f(x) = 3(2)^x$$

• Write an exponential function that models the data to the right. • Determine whether the function represents

exponential growth or exponential decay **a.** $f(x) = 4(1+0.05)^x$ **b.** $g(x) = 3(0.975)^x$ **c.** $h(x) = \frac{1}{2}(\frac{3}{2})^x$

a.
$$f(x) = 4(1+0.05)^x$$
 b. $g(x) = 3(0.975)^x$ **c.** $h(x) = \frac{1}{2}(1+0.05)^x$ Graph $y = 8(\frac{1}{2})^x$. Find the domain and range

Graph $y = 8\left(\frac{1}{4}\right)^x$. Find the domain and range of the function.

Determine whether the function represents a linear or an exponential function.

a.
$$f(x) = 4x + 8$$
 b. $g(x) = 2(1.25)^x$ **c.** $h(x) = \frac{1}{2}(\frac{3}{4})^x$

 $\bullet \;\;$ Determine whether the function is an exponential function.

a.
$$f(x) = 4(3)^x$$
 b. $g(x) = 5x^2 + 4$ **c.** $h(x) = 3x - 6$

• Identify the percent rate of change of the function.
a.
$$y = 5(0.6)^x$$
 b. $f(x) = 0.2(1.8)^x$



AR1.3 Add, subtract, and multiply polynomial expressions AR1.4 Divide polynomial expressions by a monomial expression AR1.7 Rewrite a polynomial expression as a product of polynomials

A hotel installs a new swimming pool and a new hot tub. Write a polynomial in standard form that represents how much more area the pool covers than the hot tub.

• The volume of a rectangular prism is $\frac{1}{2}x^2 + 4x^2 - 9x$ cubic units. The product of the length and the width of the prism is $\frac{3}{2}x$ square units. What is the height of the prism?

• The area of a square backyard is $\frac{x^2}{2} - 36x + 324$ square feet. a. What is a side length of the backyard? b. What is the perimeter of the backyard? A hotel installs a new swimming pool and a new hot tub. Write a



· Find the sum, difference, or product.

a.
$$\left(\frac{1}{2}x - \frac{2}{3}\right)\left(\frac{1}{4}x + \frac{1}{3}\right)$$
 b. $\left(\frac{2}{3}x^2 + 4x\right) + \left(-\frac{1}{4}x^2 + x + \frac{1}{2}\right)$

a.
$$\frac{64a^4 + 32a^3 - 16a^2}{-8a^2}$$
 b. $\frac{c^3 - 8a^2}{-8a^2}$

b.
$$\frac{c - 6c + 7c}{-\frac{1}{3}c}$$

$$\frac{1}{2}z^3$$

· Factor the polynomial.

b.
$$20b^2 + 22b + 6$$

c.
$$12c^2 + 13c - 35$$

• Find the sum, difference, or product.

a.
$$(x + 1)(5x + 2)$$
 b. $(5x^3 + 4x^2) + (-x^2 - 2x + 19)$ **c.** $(3x^2 + 7x - 15) - (2x^2 - 3x + 20)$

b.
$$\frac{-4y^2 - 8y + 2}{4}$$

c.
$$\frac{6z^2 - 12z + 27}{-3}$$

a. –9

• Determine if each term can be combined with $-9x^2$. c. $\frac{9}{13}x^2$ **b.** 7*x*

· List all the factor pairs of the number.

d. 63 b. 20

Standards:

Given an quadratic expression or equation determine & interpret the vertex and zeros

AR3.7 Graph a quadratic function given a table, equation, or description AR3.8 Solve, graph, and interpret key features of quadratic functions

• A quadratic function opens downward and has a vertex of (a, b). Find the domain and range of the function. Then identify the intervals when the function is increasing and decreasing, the end behavior of the function, and the axis of

A person sitting in the top row of the bleachers at a concert drops a hat. The function $h=-4x^\circ2+36$ represents the height h (in feet) of the hat after x seconds. a. Find and interpret the vertex of the graph of the function. b. Find and interpret the zeros of the graph of the function. Graph the quadratic function represented by the table, equation, or written description. Identify the characteristics of the quadratic function and its graph.

y 0 3 4 3 0

The profit (in millions of dollars) of a company x years after starting the company is represed by the function $p(x) = 0.01x^2 - 0.5x + 10$. a. Graph the function. b. Identify and interpret characteristics of the function and its graph.

• Make a plan for how you would find the vertex and the zeros of the function. The path of a golf ball can be modeled by the function $h(t) = -4t^2 + 40t$. where h(t) is the height (in feet) of the ball t seconds after it is hit.

 The graph of a quadratic function is shown. Identify the intervals where the function is increasing, decreasing, positive, and negative. Then identify the end behavior of the function. • Graph the function $y = -x^2 + 4x - 3$.

Identify characteristics of the function and its graph.

· Find the vertex and zeros of the graph of the function.

• Graph
$$y = -2x^2 - 4x$$
.

• Identify the intercepts and vertex of the quadratic function $f(x) = 4x^2 - 10x - 6$.



Standards:

AR3.1 Write and Solve quadratic equations AR3.6 Given an quadratic expression or equation determine & interpret the

AR3.8 Solve, graph, and interpret key features of quadratic functions

Write a real-life word problem that involves writing and solving a quadratic equation.

A person sitting in the top row of the bleachers at a concert drops a hat. The function $h = -4x^2 + 36$ represents the height h (in feet) of the hat after x seconds. a. Find and interpret the vertex of the graph of the function $h = -4x^2 + 36$ represents the height h (in feet) of the hat after x seconds. a. Find and interpret the vertex of the graph of the function. b. Find and interpret the zeros of the graph of the

The profit (in millions of dollars) of a company x years after starting the company is represented by the function $p(x) = 0.04x^2 - 0.5x + 10$. a. Graph the function. b. Identify and interpret characteristics of the function and its graph. A rectangular picture has a height that is 4 times its width. The picture is enlarged so the

area of the picture is 196 square inches. Write and solve an equation to find the dimensions of the large picture.

• Make a plan for how you would find the vertex and the zeros of the function. The path of a golf ball can be modeled by the function $h(t) = -4t^2 + 40t$, where h(t) is the height fin feath of the first the height fin feath of the first than where h(t) is the height (in feet) of the ball t seconds after it is hit.

Graph the function $y = -x^2 + 4x - 3$. Identify characteristics of the function and its graph. Solve the quadratic equation.

a.
$$-3x^2 + 2x = -6$$

b.
$$2x^2 + 16x = 0$$

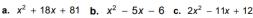
c.
$$2x^2 - 2x - 4 = 0$$

- Find the vertex and zeros of the graph of the function.
- · Identify the intercepts and vertex of the quadratic function $f(x) = 4x^2 - 10x - 6$.



· Factor the polynomial.

a.
$$x^2 + 18x + 81$$





DPI.1 Given a set of data, select an appropriate method

DPI.1 Given a set of data, select an appropriate methor to represent the data DPI.2 Interpret data distributions represented in various ways. State whether the data is numerical or categorical, whether it is univariate or bivariate DP3.1 Construct a two-way frequency table summarizing

bivariate categorical data

Total

71 100

Measure the heights of students in two different classes. Create an appropriate data display that best represents the data. Explain your reasoning. Create a word problem that involves constructing a two-way table Analyze the data and then create a display that

- appropriately represents the data. Explain your
- appropriately represents the data. Explain your reasoning.

 The bar graph shows the various ways that Mudents in your grade get to school. Tell whether the data is numerical or categorical and whether it is univariate or bivariate

 You conduct a survey. Four hundred pines two freshmen reasoned with Management of the properties of
- they participate in sports. Four hundred nine-two freshmen respond, with 142 of them responding "yes." Five hundred four seniors respond, with 402 esponding "no." a. Organize the results in a two-way table. Include marginal frequencies.

 The table shows the number of pencils each student in a class brought to school. Create a dot plot to represent the data.



Tell whether this data display represents numerical or categorieal data and whether the data is univariate or bivariate.

			Yes	No	Total	J
Complete the two-way table that shows survey results.	st.	Yes	22			1
complete the way table that shows startey restates	F &	No		65		

• Which box-and-whisker plot represents the given data? 6, 8, 8, 10, 11, 13, 14, 16, 18 ---- \leftarrow



- Tell whether the data are numerical or categorical, a, colors of shirts worn by students in a class b. heights of buildings in a town
- Define each term. a. marginal frequency b. joint frequency