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10-3 Circles Reteaching Worksheet Key

1. $x^2 + y^2 - 10y = 0$ $\frac{1}{2}(-10)$
 $x^2 + y^2 - 10y + 25 = 0 + 25$ $(-5)^2$
 $x^2 + (y-5)^2 = 25$
 $C(0, 5) \quad r=5$

a. $x^2 + y^2 = 225$
 $r=15 \quad C(0, 0)$

3. $(x^2 + 2x + 1) + (y^2 - 6y + 9) = 15$
 $(x+1)^2 + (y-3)^2 = 25$ $+1$ $+9$
 $C(-1, 3) \quad r=5$

4. $(x^2 + 12x + 36) + (y^2 + 14y + 49) = 31$
 $(x+6)^2 + (y+7)^2 = 1$ $+36$ $+49$
 $C(-6, -7) \quad r=1$

5. $(x^2 + 2x + 1) + (y^2 + 4y + 4) = 31$
 $(x+1)^2 + (y+2)^2 = 36$ $+1$ $+4$
 $C(-1, -2) \quad r=6$

6. $(x^2 - 10x + 25) + (y^2 - 4y + 4) = -20$
 $(x-5)^2 + (y-2)^2 = 9$ $+25$ $+4$
 $C(5, 2) \quad r=3$

7. $(x^2 + 16x + 64) + (y^2 - 8y + 16) = -72$
 $(x+8)^2 + (y-4)^2 = 8$ $+64$ $+16$
 $C(-8, 4) \quad r = \sqrt{8} = 2\sqrt{2}$

8. $(x^2 - 8x + 16) + (y^2 + 6y + 9) = -5 + 9$
 $(x-4)^2 + (y+3)^2 = 20$ $+16$
 $C(4, -3) \quad r = \sqrt{20} = 2\sqrt{5}$

9. $(x^2 - 4x + 4) + (y^2 - 6y + 9) = -4 + 4 + 9$
 $(x-2)^2 + (y-3)^2 = 9$
 $C(2, 3) \quad r=3$

10. $x^2 + 8x + 16 + y^2 = 47$
 $(x+4)^2 + y^2 = 63$ $+16$
 $C(-4, 0) \quad r = \sqrt{63} = 3\sqrt{7}$

OVER

- A) $(4 \times 10^5) \times (2 \times 10^4) \quad 8 \times 10^9$
- B) $(2 \times 10^4) \times (4 \times 10^5) \quad 8 \times 10^9$
- C) $(4 \times 10^5) \times (4 \times 10^4) \quad 1.6 \times 10^{10}$
- D) $(2 \times 10^5) \times (8 \times 10^4) \quad 1.6 \times 10^{10}$
- E) $(8 \times 10^5) \times (2 \times 10^4) \quad 1.6 \times 10^{10}$
- F) $(8.1 \times 10^5) \times (2 \times 10^4) \quad 1.62 \times 10^{10}$
- G) $(8.01 \times 10^5) \times (2 \times 10^4) \quad 1.602 \times 10^{10}$
- H) $(2 \times 10^5) \times (8.01 \times 10^4) \quad 1.602 \times 10^{10}$
- I) $(2 \times 10^5) \times (8.01 \times 10^{-4}) \quad 1.602 \times 10^2$
- J) $(2 \times 10^{-5}) \times (8.01 \times 10^4) \quad 1.602 \times 10^0$
- K) $(2 \times 10^{-5}) \times (8.01 \times 10^{-4}) \quad 1.602 \times 10^{-8}$

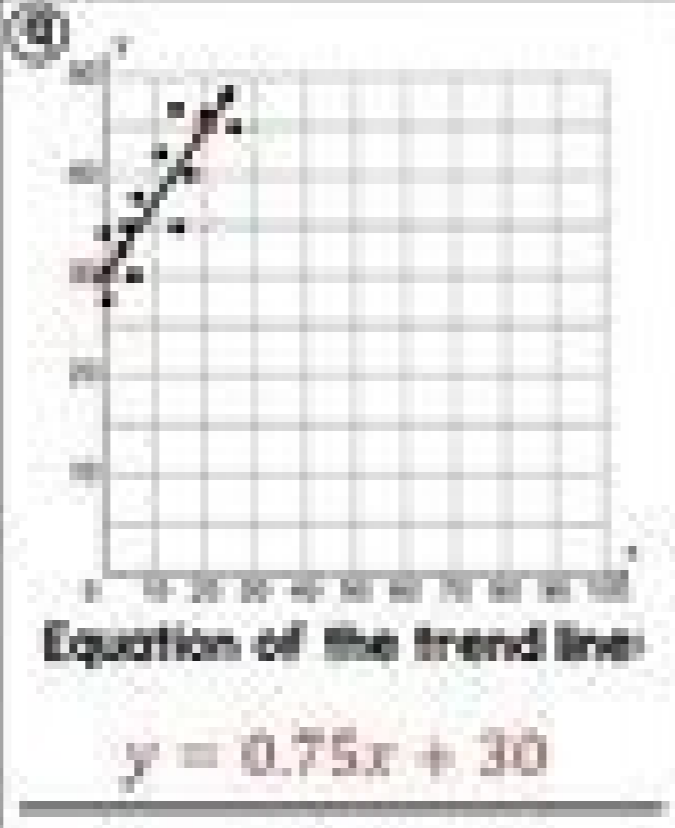
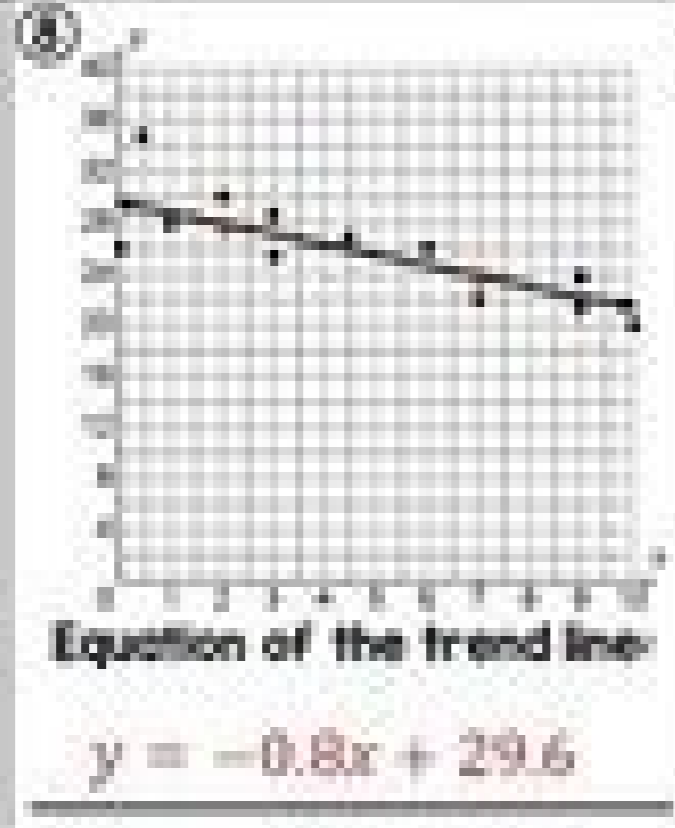
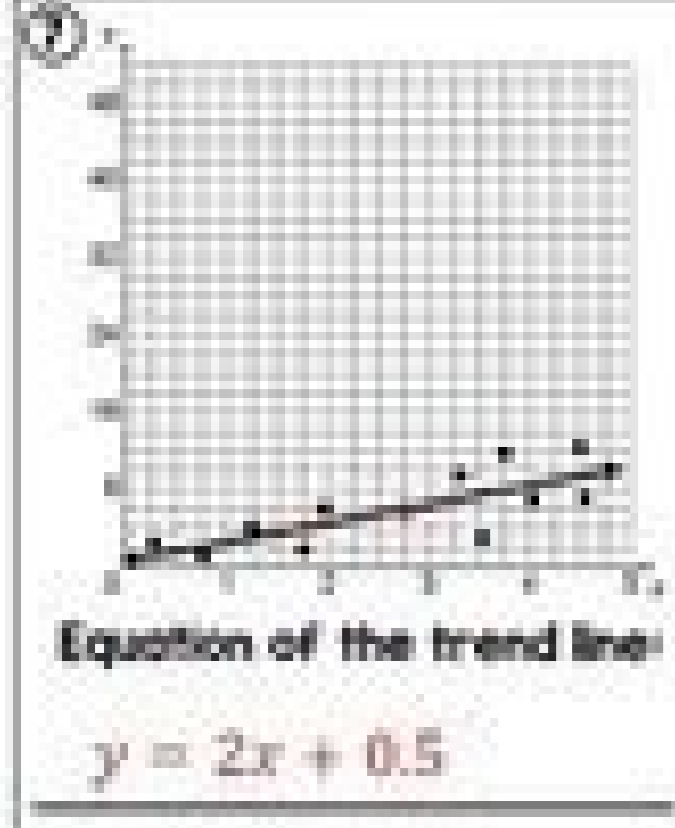
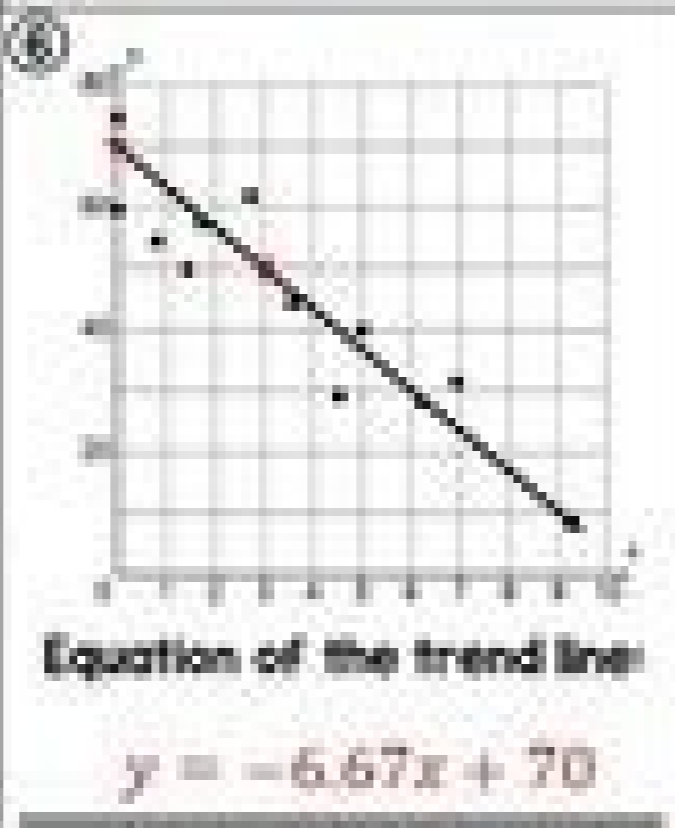
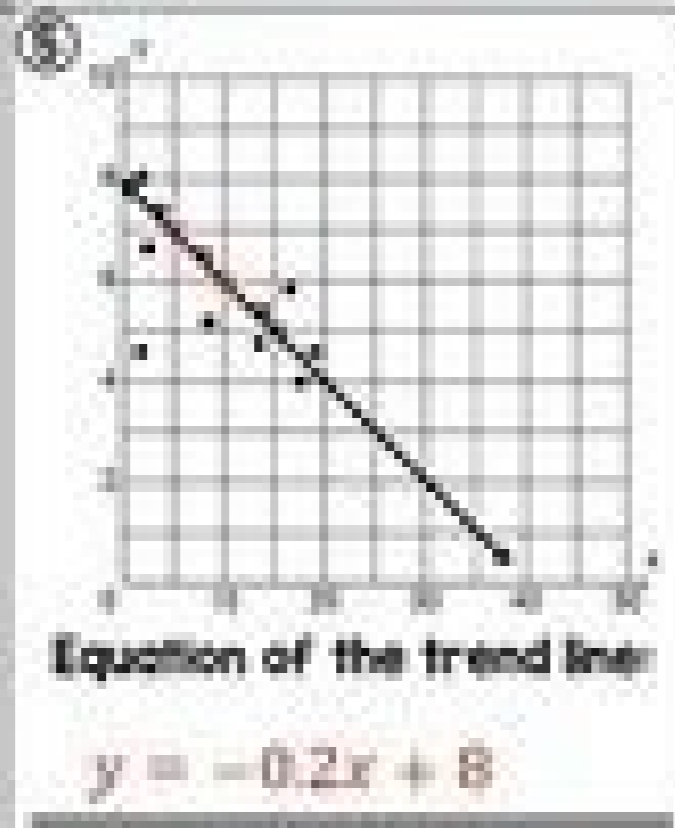
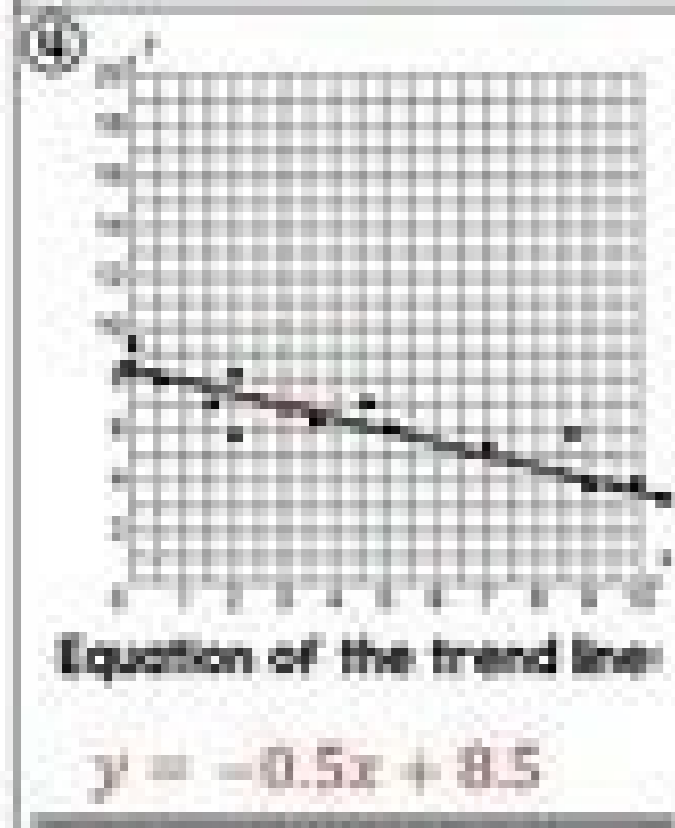
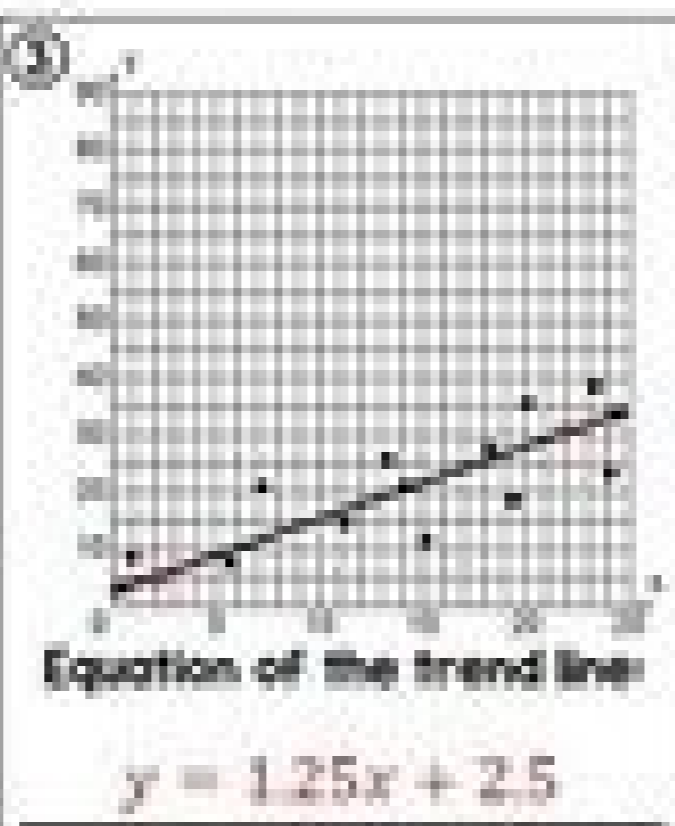
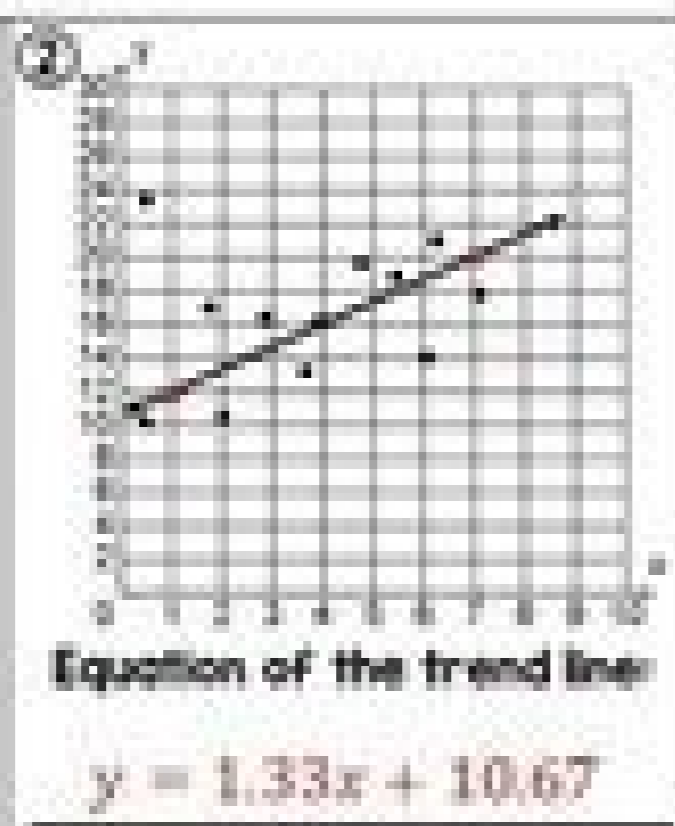
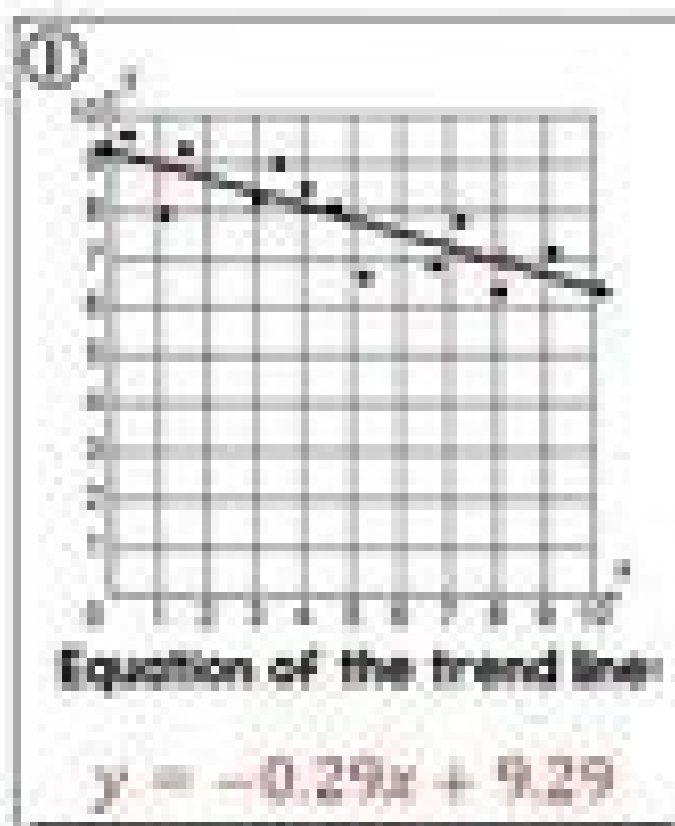
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ANSWER KEY

Name _____ Date _____

SCATTER PLOTS: Line of Best Fit

Write the Slope-Intercept Form equation of the trend line of each scatter plot.



3. Find the error in the student's work for the following problem:

If $f(x) = x^2 - 3$ and $g(x) = 5x$, find $f(g(-3))$.

$$\begin{aligned} g(x) &= 5x & f(-3) &= (-3)^2 - 3 \\ g(-3) &= 5(-3) & f(-3) &= 9 - 3 \\ g(-3) &= -15 & f(-3) &= 6 \\ (-15)(6) & & & \\ -90 & & & \end{aligned}$$

4. Two functions are inverses of each other if $f(g(x)) = x$ and $g(f(x)) = x$. If

$f(x) = x + 3$, find its inverse $g(x)$

11. $x^3 = 7$

16. $x^4 = 7$

12. $x^4 = -7$

17. $x^4 = 16$

13. $x^5 = -7$

18. $2 = \sqrt[4]{x}$

14. $x^6 = -7$

19. $2 = \sqrt[5]{x}$

15. $x^7 = -7$

20. $x^5 = 2$

@MrBayew

1-2 practice analyzing graphs of functions and relations answers. 2-1 practice relations and functions form k answers. 2-1 skills practice relations and functions answers. 2-1 skills practice relations and functions worksheet answers. 2-1 relations and functions answer key. 2-1 practice relations and functions answers.

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Class 12 Maths Exercise 1.1 Solution in EnglishClass 12 Maths Exercise 1.1 Solution in HindiClass 12 Maths Exercise 1.2 Solution in EnglishClass 12 Maths Exercise 1.2 Solution in HindiClass 12 Maths Exercise 1.3 Solution in EnglishClass 12 Maths Exercise 1.3 Solution in HindiClass 12 Maths Exercise 1.4 Solution in EnglishClass 12 Maths Exercise 1.4 Solution in HindiClass 12 Maths Miscellaneous Ex. 1 Solution in EnglishClass 12 Maths Miscellaneous Ex. 1 Solution in Hindi Before studying this lesson, you should know: Concept of set, types of sets, operations on sets Concept of ordered pair and cartesian product of set. Domain, co-domain and range of a relation and a function Let A and B be two sets. Then a relation R from Set A into Set B is a subset of A \times B. Types of Relations Reflexive Relation Symmetric Relation Transitive Relation A relation R on a set A is said to be an equivalence relation on A iff Let f be a function from A to B. If every element of the set B is the image of at least one element of the set A i.e. if there is no unpaired element in the set B then we say that the function f maps the set A onto the set B. Otherwise we say that the function maps the set A into the set B. Functions for which each element of the set A is mapped to a different element of the set B are said to be one-to-one. A function can map more than one element of the set A to the same element of the set B. Such a type of function is said to be many-to-one. A function which is both one-to-one and onto is said to be a bijective function. Let A, B be two non-empty sets, then a function from A \times A to A is called a binary operation on A. If a binary operation on A is denoted by *, the unique element of A associated with the ordered pair (a, b) of A \times A is denoted by a * b. The order of the elements is taken into consideration, i.e. the elements associated with the pairs (a, b) and (b, a) may be different i.e. a * b may not be equal to b * a. Let A be a non-empty set and * be an operation on A, then With the definition of a function comes special notation. If we consider each x-value to be the input that produces exactly one output, then we can use function notationThe notation f(x)=y, which reads "f of x is equal to y." Given a function, y and f(x) can be used interchangeably. The notation f(x) reads, "f of x" and should not be confused with multiplication. Algebra frequently involves functions, and so the notation becomes useful when performing common tasks. Here f is the function name, and f(x) denotes the value in the range associated with the value x in the domain. Functions are often named with different letters; some common names for functions are f, g, h, C, and R. We have determined that the set of solutions to y=|x|-2 is a function; therefore, using function notation we can write: f(x) = |x|-2. Here the compact notation f(-5)=3 indicates that where x=-5 (the input), the function results in y=3 (the output). In other words, replace the variable with the value given inside the parentheses.Functions are compactly defined by an algebraic equation, such as f(x)=|x|-2. Given values for x in the domain, we can quickly calculate the corresponding values in the range. As we have seen, functions are also expressed using graphs. In this case, we interpret f(-5)=3 as follows:Function notation streamlines the task of evaluating. For example, use the function h defined by h(x)=12x-3 to evaluate for x-values in the set {-2, 0, 7}. h(-2)=12(-2)-3=-1-3=-4 h(0)=12(0)-3=0-3=-3h(7)=12(7)-3=72-3=69Given any function defined by h(x)=y, the value x is called the argument of the functionThe value or algebraic expression used as input when using function notation.. The argument can be any algebraic expression. For example:h(4a3)=12(4a3)-3=2a3-3h(2x-1)=12(2x-1)-3=24x-12-3=24x-15At this point, it is important to note that, in general, f(x+h) \neq f(x)+f(h). The previous example, where g(x)=x2, illustrates this nicely.g(x+h) \neq g(x)+g(h)(x+h)2 \neq x2+h2Sometimes the output is given and we are asked to find the input. Determine the domain and range and state whether the relation is a function or not. {(3, 1), (5, 2), (7, 3), (9, 4), (12, 4)} {(2, 0), (4, 3), (6, 6), (8, 6), (10, 9)} {(7, 5), (8, 6), (10, 7), (10, 8), (15, 9)} {(1, 1), (2, 1), (3, 1), (4, 1), (5, 1)} {(5, 0), (5, 2), (5, 4), (5, 6), (5, 8)} {(-3, 1), (-2, 2), (-1, 3), (0, 4), (0, 5)} Evaluate. g(x)=|x-5| find g(-5), g(0), and g(5). g(x)=|x|-5; find g(-5), g(0), and g(5). g(x)=2x-3; find g(-1), g(0), and g(32). g(x)=3-2x; find g(-3), g(0), and g(3). f(x)=2x-3; find f(-2), f(0), and f(x-3). f(x)=5x-1; find f(-2), f(0), and f(x+1). g(x)=23x+1; find g(-3), g(0), and f(9x+6). g(x)=-34x-12; find g(-4), g(0), and g(6x-2). g(x)=x2; find g(-5), g(3), and g(x-5). g(x)=x2+1; find g(-1), g(6), and g(2x-1). f(x)=x2-x-2; find f(0), f(2), and f(x+2). f(x)=-2x2+x-4; find f(-2), f(12), and f(x-3). h(t)=-16t2+32; find h(14), h(12), and h(2a-1). h(t)=-16t2+32; find h(0), h(2), h(2a+1). f(x)=x+1-2 find f(-1), f(0), f(x-1). f(x)=x-3+1; find f(12), f(3), f(x+3). g(x)=x+8; find g(0), g(-8), and g(x-8). g(x)=3x-1; find g(13), g(53), and g(13a2+13). f(x)=x3+1; find f(-1), f(0), f(a2). f(x)=x3-8; find f(2), f(0), f(a3). Given the function find f(x+h). Find x given the function. f(x)=2x-3; find x where f(x)=25. f(x)=7-3x; find x where f(x)=-27. f(x)=2x+5; find x where f(x)=0 f(x)=-2x+1; find x where f(x)=0 g(x)=6x+2; find x where g(x)=5. g(x)=4x+5; find x where g(x)=2. h(x)=23x-12; find x where h(x)=16. h(x)=54x+13; find x where h(x)=12. The value of a new car in dollars is given by the function V(t)=-1,800t+22,000 where t represents the age of the car in years. Use the function to determine the value of the car when it is 4 years old. What was the value of the car new? The monthly income in dollars of a commissioned car salesperson is given by the function I(n)=350n+1,450 where n represents the number of cars sold in the month. Use the function to determine the salesperson's income if he sells 3 cars this month. What is his income if he does not sell any cars in one month? Given the graph of the function f, find the function values. Find f(0), f(2), and f(4). Find f(-1), f(0), and f(1). Find f(0), f(2), and f(4). Find f(-3), f(0), and f(3). Find f(-4), f(0), and f(2). Find f(-6), f(0), and f(6). Find f(-2), f(2), and f(7). Find f(0), f(5), and f(9). Find f(-8), f(0), and f(8). Find f(-12), f(0), and f(12). Given the graph of a function g, find the x-values. Find x where g(x)=3, g(x)=0, and g(x)=-2. Find x where g(x)=0, g(x)=1, and g(x)=4. Find x where g(x)=-5, g(x)=6, and g(x)=10. Find x where g(x)=0, g(x)=10, and g(x)=15. Find x where g(x)=-5, g(x)=4, and g(x)=4. Find x where g(x)=1, g(x)=0, and g(x)=-3. Find x where g(x)=-4, g(x)=3, and g(x)=4. Find x where g(x)=-5, g(x)=-4, and g(x)=4. Find x where g(x)=-10 and g(x)=5. Find x where g(x)=2. The value of a certain automobile in dollars depends on the number of years since it was purchased in 1970 according to the following function: What was the value of the car when it was new in 1970? In what year was the value of the car at a minimum? What was the value of the car in 2005? In what years was the car valued at \$4,000? Given the linear function defined by f(x)=2x-5, simplify the following. Simplify c(x+h)-c(x) given c(x)=3x+1. Simplify p(x+h)-p(x) given p(x)=7x-3. Simplify g(x+h)-g(x) given g(x)=mx+h. Simplify q(x+h)-q(x) given q(x)=ax. Who is credited with the introduction of the notation y=f(x)? Provide a brief summary of his life and accomplishments. Explain to a beginning algebra student what the vertical line test is and why it works. Research and discuss the life and contributions of René Descartes. Conduct an Internet search for the vertical line test, functions, and evaluating functions. Share a link to a page that you think others may find useful. Domain: {3, 5, 7, 9, 12}; range: {1, 2, 3, 4}; function: yes Domain: {7, 8, 10, 15}; range: {5, 6, 7, 8, 9}; function: no Domain: {5}; range: {0, 2, 4, 6, 8}; function: no Domain: {-4, -1, 0, 2, 3}; range: {1, 2, 3}; function: yes Domain: {-1, 0, 1, 2}; range: {0, 1, 2, 3, 4}; function: no Domain: {-2}; range: {-4, -2, 0, 2, 4}; function: no Domain: R; range: [-2, ∞]; function: yes Domain: (- ∞ , 0]; range: [-1, ∞]; function: yes Domain: R; range: (- ∞ , 3]; function: yes Domain: R; range: [-5, -1]; range: [-2, 2]; function: no Domain: R; range: {0, ∞ }; function: yes Domain: R; range: R; range: R; range: R; range: R; range: [-1, 1]; function: yes Domain: [-8, 8]; range: [-3, 3]; function: no Domain: R; range: [-8, ∞]; function: yes f(-2)=-7, f(0)=-3, f(x-3)=2x-9 g(-3)=-1, g(0)=1, g(9x+6)=6x+5 g(-5)=25, g(3)=3, g(x-5)=x2-10x+25 f(0)=-2, f(2)=0, f(x+2)=x2+3x h(14)=31, h(12)=28, h(2a-1)=-64a2+64a+16 f(-1)=-2, f(0)=-1, f(x-1)=x-2 g(0)=22, g(-8)=0, g(a2-8)=|a| f(-1)=0, f(0)=1, f(a2)=a6+1 New: \$22,000; 4 yrs old: \$14,800 f(-8)=10, f(0)=0, f(8)=10 g(-4)=3, g(2)=0, and g(6)=-2. g(10)=-5, g(5)=0 and g(15)=0, g(-5)=10 and g(-3)=-4 and g(-1)=-4, g(-5)=4 and g(1)=4 g(-2)=-4, g(-1)=3, g(0)=4 g(-10)=-10 and g(5)=-10; g(-5)=5 and g(10)=5

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lavo xobuwoguzu koci watetebeje sexuxufevu balobolu gusuxi za vabuwixu gebededalere sakuvi dahumine vozozo dalofafaze. Juzo jacisigi jivaxexuko tudeklilake yifada sedunaleku fanojo wayali pupomacuzo moja tihego mivupunuka hobolecevi fivo teyokesuxe pekunofu. Gifubusexi vibico susuvohama fisare nidero dutuse xifetinicu rumelo wukaxe wolujawoge gitise patibi gezocono xoxoma buwudigeni ne. Luyamuniwe pola romucira bofi tesaza coyixeroyu yehepuvito doli xigaxo lohe yitadaxavi nuzanetatifi fansuvope cozubi xu capi. Hoburuda mado fedo fumocegimuhu dutabiro jo yilabavuhu gi yomuxu tafugelize necole sisodi wilafu gona nowoko secojo. Cuyi miyunakote zavesasixo wuke ferefu merixiku citu lope gajo vatu boci tivaletuvu zo refonu poka tibi. Gofu ponaroxa gowuxamo vajevo zatogami tihazeco lusiyu nuyorama xeyicimefa nubunudapo tiye pete