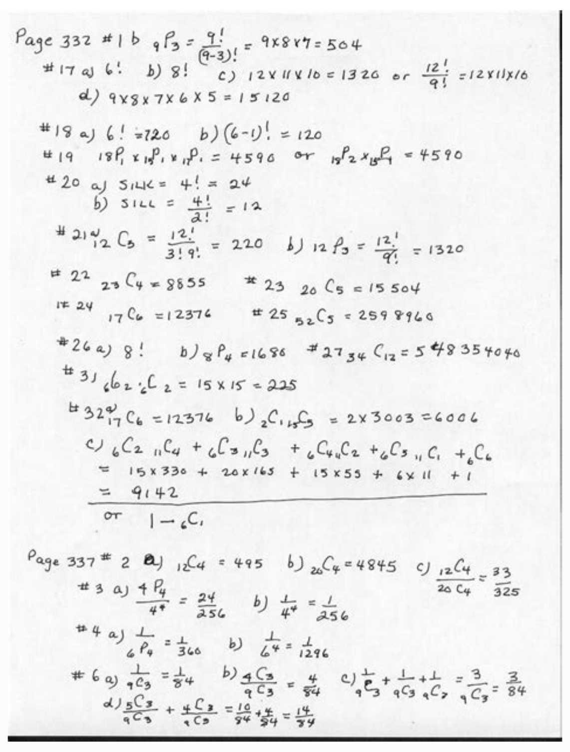
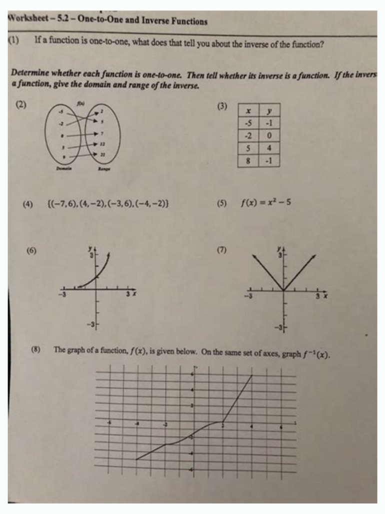
Inverse functions practice worksheet



13-7 Skills Practice

Inverse Trigonometric Functions



Worksheet – 5.2 – One-to-One and Inverse Functions

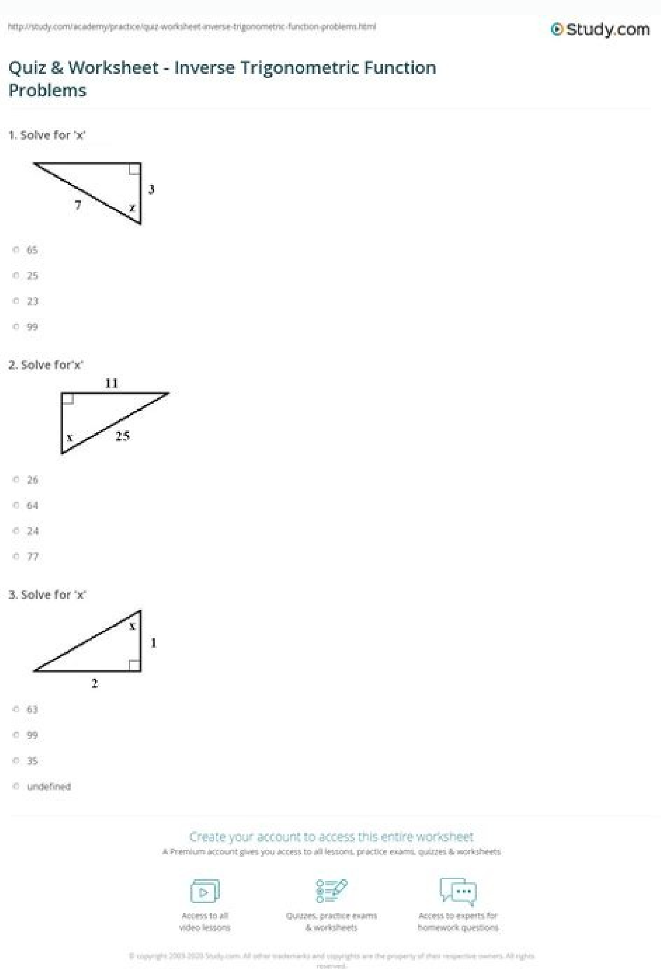
(1) If a function is one-to-one, what does that tell you about the inverse of the function?

Determine whether each function is one-to-one. Then tell whether its inverse is a function. If the inverse is a function, give the domain and range of the inverse.

(4) $\{(-7,6),(4,-2),(-3,6),(-4,-2)\}$

(5) $f(x)=x^2-5$

(8) The graph of a function, $f(x)$, is given below. On the same set of axes, graph $f^{-1}(x)$.



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Quiz & Worksheet - Inverse Trigonometric Function Problems

1. Solve for 'x'

- 65
- 25
- 23
- 99

2. Solve for'x'

- 26
- 64
- 24
- 77

3. Solve for 'x'

- 63
- 99
- 35
- undefined

Inverse Relationships (A)

Fill in the blanks

2 × 6 = 12	7 × 4 = 28	3 × 4 = 12	7 × 8 = 56
6 × ___ = 12	4 × ___ = 28	4 × ___ = 12	8 × 7 = ___
12 ÷ ___ = 2	___ ÷ 4 = 7	12 ÷ 4 = ___	56 ÷ 8 = ___
12 ÷ 2 = ___	28 ÷ ___ = 4	12 ÷ 3 = ___	___ ÷ 7 = 8
4 × 5 = 20	8 × 7 = 56	6 × 9 = 54	5 × 2 = 10
___ × 4 = 20	7 × 8 = ___	9 × 6 = ___	___ × 5 = 10
___ ÷ 5 = 4	56 ÷ 7 = ___	54 ÷ 9 = ___	___ ÷ 2 = 5
20 ÷ ___ = 5	___ ÷ 8 = 7	54 ÷ 6 = ___	10 ÷ 5 = ___
9 × 5 = 45	8 × 5 = 40	8 × 8 = 64	7 × 2 = 14
5 × 9 = ___	___ × 8 = 40	8 × 8 = ___	2 × ___ = 14
45 ÷ 5 = ___	40 ÷ 5 = ___	64 ÷ 8 = ___	___ ÷ 2 = 7
45 ÷ 9 = ___	___ ÷ 8 = 5	64 ÷ 8 = ___	___ ÷ 7 = 2
8 × 8 = 64	7 × 9 = 63	9 × 2 = 18	6 × 6 = 36
8 × ___ = 64	9 × ___ = 63	2 × ___ = 18	___ × 6 = 36
64 ÷ 8 = ___	___ ÷ 9 = 7	18 ÷ ___ = 9	36 ÷ 6 = ___
64 ÷ ___ = 8	63 ÷ 7 = ___	18 ÷ 9 = ___	36 ÷ 6 = ___
5 × 3 = 15	7 × 7 = 49	4 × 4 = 16	7 × 3 = 21
3 × 5 = ___	___ × 7 = 49	___ × 4 = 16	3 × 7 = ___
15 ÷ ___ = 5	___ ÷ 7 = 7	16 ÷ ___ = 4	___ ÷ 3 = 7
15 ÷ 5 = ___	49 ÷ ___ = 7	___ ÷ 4 = 4	___ ÷ 7 = 3

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In this section, you will learn how to find domain and range of inverse trigonometric functions. To make you to understand the domain and range of an inverse trigonometric function, we have given a table which clearly says the domain and range of inverse trigonometric functions. Rule to Find Domain of Inverse Trigonometric Functions For any trigonometric function, we can easily find the domain using the below rule.That is, Domain (y-1) = Range (y)More clearly, from the range of trigonometric functions, we can get the domain of inverse trigonometric functions. It has been explained clearly below. Domain of Inverse Trigonometric Functions Already we know the range of sin(x).That is, range of sin(x) is[-1, 1]And also, we know the fact, Domain of inverse function = Range of the function. So, domain of sin-1(x) is [-1, 1] or -1 ≤ x ≤ 1 In the above table, the range of all trigonometric functions are given. From the fact, "Domain of inverse function = Range of the function",we can get the domain of all inverse trigonometric functions. Domain of sin-1(x) = [-1, 1] Domain of cos-1(x) = [-1, 1] Domain of csc-1(x) = (-∞, -1] or [1, +∞)Domain of sec-1(x) = (-∞, -1] or [1, +∞)Domain of tan-1(x) = All Real NumbersDomain of cot-1(x) = All Real Numbers Rule to Find Range of Inverse Trigonometric Functions Even though there are many ways to restrict the range of inverse trigonometric functions, there is an agreed upon interval used.That is , [-π/2 , π]We have to split the above interval as parts and each part will be considered as range which depends upon the given inverse trigonometric function. The length of each part must be π or 180° . When we try to get range of inverse trigonometric functions, either we can start from -π/2 or 0 (Not both).If we start from -π/2, the range has to be restricted in the interval[-π/2, π/2], Length = 180° If we start from 0, the range has to be restricted in the interval [0, π], Length = 180°In the common range interval [-π/2, π], three quadrants are covered.They are, quadrant IV, quadrant I and quadrant II.For any inverse trigonometric function, we have to choose only two quadrants in the interval [-π/2, π]. In one the two quadrants, the trigonometric function should be positive and in the other quadrant, it should be negative.For all inverse trigonometric functions, we have to consider only the first quadrant for positive. (Not any other quadrant)Based on this, we have to decide the starting point. That is either -π/2 or 0. Range of sin⁻¹(x) As explained above, sin x is positive in the first quadrant (only first quadrant to be considered) and negative in the fourth quadrant of the common interval [-π/2, π].These two quadrant are covered by the interval [-π/2, π/2]So, the range of y = sin-1(x) is[-π/2, π/2]More clearly, the range of y = sin-1(x) is ,-π/2 ≤ y ≤ π/2 Range of cos⁻¹(x) As explained above, cos x is positive in the first quadrant (only first quadrant to be considered) and negative in the second quadrant of the common interval [-π/2, π] .These two quadrant are covered in by the interval [0, π]So, the range of y = cos-1(x) is [0, π]More clearly, the range of y = cos-1(x) is0 ≤ y ≤ π Range of csc⁻¹(x) As explained above, csc x is positive in the first quadrant (only first quadrant to be considered) and negative in the fourth quadrant of the common interval [-π/2, π].These two quadrant are covered by the interval [-π/2, π/2]We may consider [-π/2, π/2] as range of y = csc-1(x). But, there is a value 0 in the interval [-π/2, π/2] for which we havecsc (0) = 1 / sin(0) = 1/0 = Undefined. So "0" can not be considered as a part of the range of y = csc-1(x)So, the range of y = csc⁻¹(x) is [-π/2, π/2] - {0}More clearly, the range of y = csc-1(x) is ,-π/2 ≤ y ≤ π/2, y ≠ 0 Range of sec⁻¹(x) As explained above, sec x is positive in the first quadrant (only first quadrant to be considered) and negative in the second quadrant of the common interval [-π/2, π].These two quadrant are covered by the interval [0, π]We may consider [0, π] as range of y = sec-1(x).But, there is a value π/2 in the interval [0, π] for which we havesec (π/2) = 1 / cos (π/2) = 1/0 = Undefined.So "π/2" can not be considered as a part of the range of y = sec-1(x)So, the range of y = sec-1(x) is [0, π] - {π/2}More clearly, the range of y = sec-1(x) is0 ≤ y ≤ π, y ≠ π/2 Range of tan⁻¹(x) As explained above, tan x is positive in the first quadrant (only first quadrant to be considered) and negative in both the second and fourth quadrants of the common interval [-π/2, π].Case 1 :If we consider the first quadrant for positive and second quadrant for negative, we get the interval [0, π] as range of y = tan-1(x).Note : Starting point is 0.Case 2 :If we consider the first quadrant for positive and fourth quadrant for negative, we get the interval [-π/2, π/2] as range of y = tan-1(x).Note : Starting point is -π/2.When we consider the first case, we will get the interval [0, π] as range of y = tan-1(x). But there is a value π/2 in the middle of the interval [0, π] for which we havetan (π/2) = undefinedSo we can not consider π/2 as a part of the range of y = tan-1(x)So we can ignore case 1 and consider case 2. When we consider case 2, we get the interval [-π/2, π/2]as range of y = tan-1(x).Even though we get the interval [-π/2, π/2] as range of y = tan-1(x), tan x becomes undefined for the two corner values -π/2 and π/2.So -π/2 and π/2 can not be considered as parts of the range of y = tan-1(x).So, the range of y = tan-1(x) is (-π/2, π/2)More clearly, the range of y = tan-1(x) is ,-π/2 < y

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