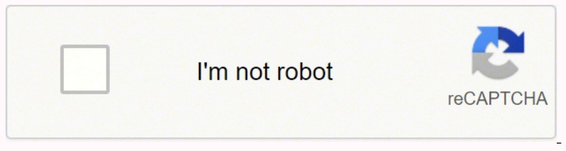

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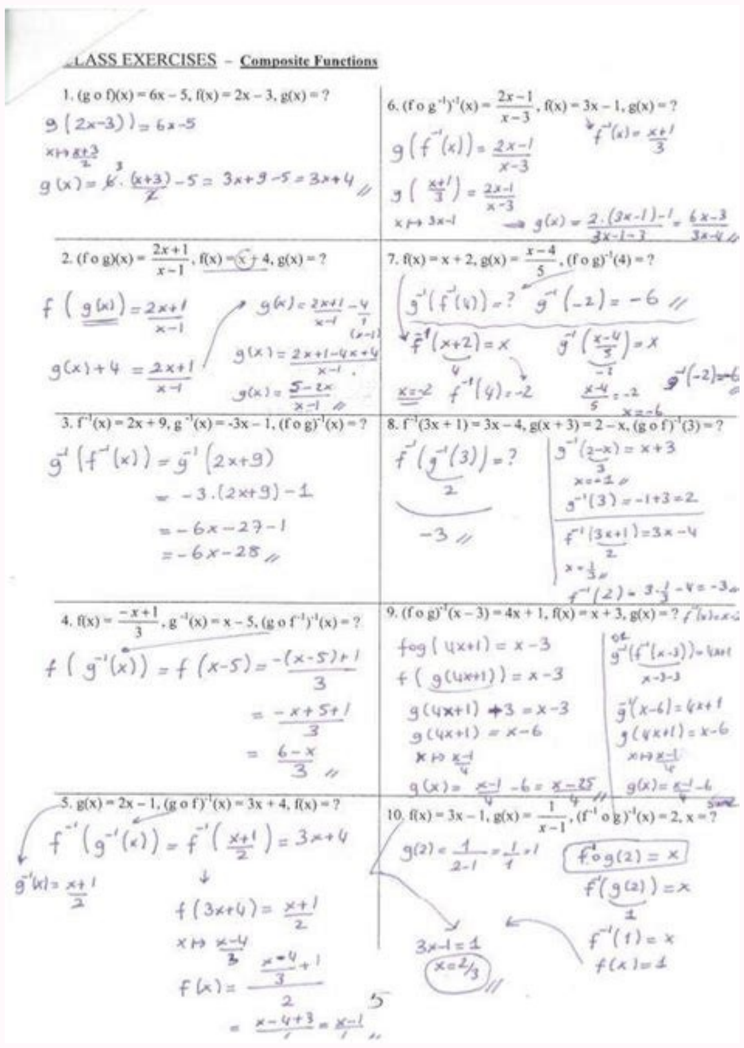
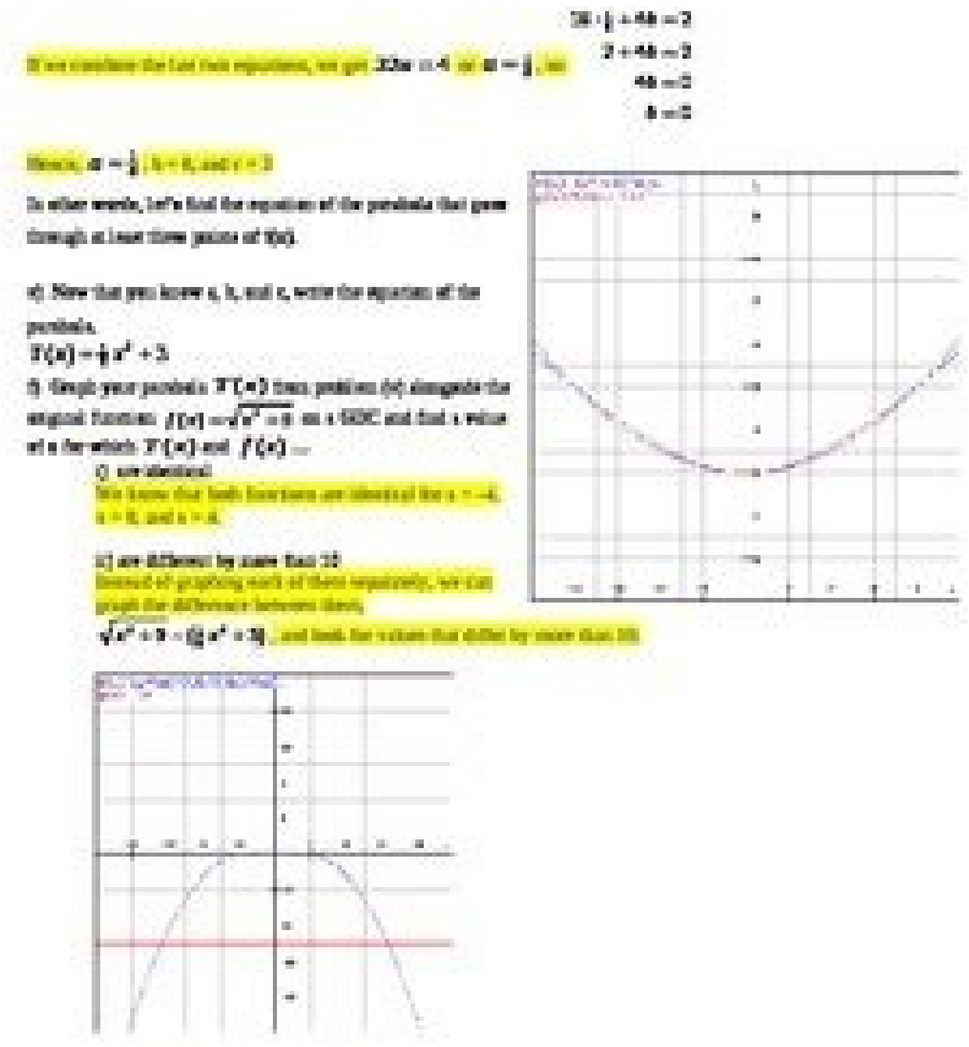
Function composition worksheet key





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Composition of Function

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = x-2 ; g(x) = x+1; h(x)=x-3.
   a) x-2
   b) X-4
   c) -x+2
   d) -x+8

2) f(x) = 2x-4 ; g(x) = x+7; h(x)=x-5.
   a) 2x+5
   b) 2x+10
   c) 2x
   d) x+2

3) f(x) = 3x-7 ; g(x) = 1-4x; h(x)=6x+9.
   a) -12x+29
   b) 12x-29
   c) 72x+112
   d) -72x-112

4) f(x) = x-4; g(x) =3x+5; h(x)=5-x.
   a) 4-3x
   b) -3x+12
   c) -3x-4
   d) 16-3x

5) f(x) = 2x+1; g(x) = 7x+4; h(x)=9x+3.
   a) 126x+96
   b) 126x-33
   c) 126x+78
   d) 126x-96

6) f(x) = 7x+5 ; g(x) = 4x-1; h(x)=x+5.
   a) 28x
   b) 28x+24
   c) 28x+138
   d) 28x-24

7) f(x) = x+3 ; g(x) = 5x-9; h(x)=x-8.
   a) 5x-46
   b) 5x-14
   c) -5x-14
   d) 5x-49

8) f(x) = 12x+3 ; g(x) = x-4; h(x)=3x.
   a) 36x-3
   b) 36x-45
   c) 36x-135
   d) -36x-42

9) f(x) = x-6 ; g(x) = x-3; h(x)=x-9.
   a) x-6
   b) x-12
   c) -x-18
   d) x-18

10) f(x) = 7x-4 ; g(x) = 3x+8; h(x)=x+2
   a) 21x-2
   b) 21x+30
   c) 21x+94
   d) 21x+2

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Algebra II --- Operations on Functions

SPI 3102.3.6 Combine functions (such as polynomial, rational, radical and absolute value expressions) by addition, subtraction, multiplication, division, or by composition and evaluate at specified values of their variables.

Perform each of the operations indicated below. Place the letter beside each problem answer blanks below that corresponds to the problem number to find out what the quote is and who said it. Some problem numbers will appear more than once.

Find (f ∘ g)(x) for each of the following functions.

1. f(x) = 9x – 4
   g(x) = 4x – 11
2. f(x) = 4x² – 2x + 3
   g(x) = –11x² + 8x – 1
3. f(x) = 2x³ – 5x² + x – 3
   g(x) = 8x² + 5
4. f(x) = 8x – 20
   g(x) = –3x + 19
5. f(x) = x² – 9
   g(x) = 7x² – 4x + 2
6. f(x) = 3x² + 10x –4
   g(x) = –4x² + x – 8

Find (f · g)(x) for each of the following functions.

7. f(x) = x + 3
   g(x) = x – 7
8. f(x) = 5x²
   g(x) = 4x² + 9x – 3
9. f(x) = 6x – 1
   g(x) = 2x² – 3x + 5

Find $\left(\frac{f}{g}\right)(x)$ for each of the following functions.

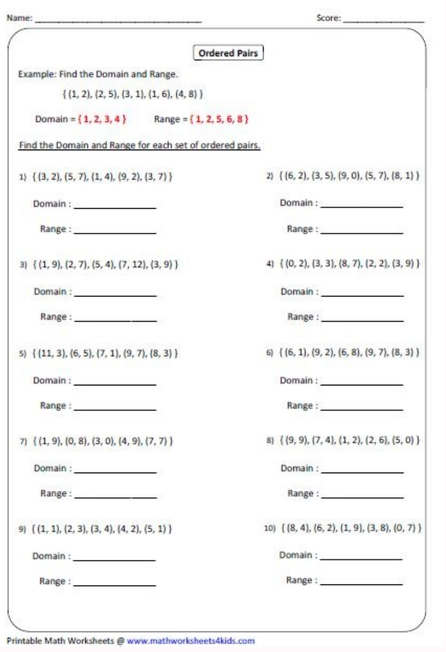
10. f(x) = x + 8
    g(x) = x – 2
11. f(x) = 10x² – 12x – 8
    g(x) = 2x – 6
12. f(x) = x² + 8x + 16
    g(x) = x + 4

Find (f - g)(x) for each of the following functions.

13. f(x) = 3x
    g(x) = 2x + 5
14. f(x) = x + 4
    g(x) = x² – 4x + 7
15. f(x) = 4x
    g(x) = x³ + 3x² + 2x – 8

Find (g - f)(x) for each of the following functions.

16. f(x) = 3x
    g(x) = 2x + 5
17. f(x) = x + 4
    g(x) = x² – 4x + 7
18. f(x) = 4x
    g(x) = x³ + 3x² + 2x – 8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Ordered Pairs

Example: Find the Domain and Range.

{ (1, 2), (2, 5), (3, 1), (1, 6), (4, 8) }

Domain = { 1, 2, 3, 4 } Range = { 1, 2, 5, 6, 8 }

Find the Domain and Range for each set of ordered pairs.

1) { (3, 2), (5, 7), (1, 4), (9, 2), (3, 7) }
Domain : _____
Range : _____

2) { (6, 2), (3, 5), (9, 0), (5, 7), (8, 1) }
Domain : _____
Range : _____

3) { (1, 9), (2, 7), (5, 4), (7, 12), (3, 9) }
Domain : _____
Range : _____

4) { (0, 2), (3, 3), (8, 7), (2, 2), (3, 9) }
Domain : _____
Range : _____

5) { (11, 3), (6, 5), (7, 1), (9, 7), (8, 3) }
Domain : _____
Range : _____

6) { (6, 1), (9, 2), (6, 8), (9, 7), (8, 3) }
Domain : _____
Range : _____

7) { (1, 9), (0, 8), (3, 0), (4, 9), (7, 7) }
Domain : _____
Range : _____

8) { (9, 9), (7, 4), (1, 2), (2, 6), (5, 0) }
Domain : _____
Range : _____

9) { (1, 1), (2, 3), (3, 4), (4, 2), (5, 1) }
Domain : _____
Range : _____

10) { (8, 4), (6, 2), (1, 9), (3, 8), (0, 7) }
Domain : _____
Range : _____

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Your body needs vitamins to function properly, and they provide many different health benefits, improving the way your body works.Vitamins are so essential to your body that not having them in the right amount can cause you to develop a variety of health problems including problems with your eyes. All worksheets are available at Mathwarehouse.com. Increasing your vitamin A intake can improve your night vision and your eyes" ability to function in low light conditions. Mathworksheetsgo.com is now part of Mathwarehouse.com. Vitamin C is also essential to keep small blood vessels in your healthy retinas.Foods that contain a significant amount of vitamin C include, but are not limited to:Melon Potato Lemon Orange Papaya Parsley Broccoli Grapefruit Strawberry Vitamin EVitamin E is known for its antioxidant properties. Vitamin B6 can prevent macular degeneration when taken together with vitamin B12. Vitamin B12 can also help prevent glaucoma, which is loss of peripheral vision due to damage to the optic nerve. These vitamins may not give you x-ray vision, but they can help improve your vision and keep your eyes a little healthier at the same time.Resource links: √¢ÂÂFood supplements and the eye, ÂÂÂÂÂNutrients for the aging eye, ÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂNatureÂÂÂÂÂÂ of Salutenutrition and Eye Health, Ã ¢ National US Medicine Library, National Institutes of Health ¢ â € â € â € â € â € â € â € œThe Effect of Lutein on Health of Eyes and Additional Eyes, Ã ¢ National US Medicine Library, National Sanità Sanità Institutes of macular degeneration and eye-related diseases, Ã¢ â¥ "National Library of Medicine, National Institutes of Health of More¹ by SymptomsFind.com Sizing your vitamin A intake can² adversely affect these photopigments - and, in turn, your retinas.Rhodopsin Ã¨ one of the four photopigments in your retinas. These vitamins are some of the most important¹ to maintain your vision and overall eye health.VITAMIN A, a well-known vitamin, Ã is essential to keep your retinas working properly. Studies have shown that a healthy vitamin C intake can help reduce the risk of cataracts. Moreover, it fights a decrease in vision due to the aging Ã¢ â ¬ "a condition known as macular degeneration. Our cornea, which Ã¨ the clear cover on the front of the eye, benefits from a healthy vitamin C intake. CiÃ² means that Rhodopsin plays a vital role in your vision at night or when you are in low light spaces. These include: Vitamin B2 Ã¨ advantageous for the corneas when you use drops of the eyes containing them. In addition, similar to vitamin C, vitamin E Ã was linked to a reduced risk of cataract and macular degeneration in several studies. Genres that contain a high quantity of vitamin E include, but are not limited to: spinach olives groundnuts blueberries sunflower seeds Green leafy vegetables Vitamin Vitamins Vitamins vitamins in the vitamin B group are beneficial for your eyes and work to improve vision. Ã responsible for the detection of small quantities of light entering the eyes. Research has also shown that our eyes can benefit when we regularly obtain vitamin E from our diets. This Ã¨ a 4-part worksheet: Part I Model Problems Part II Practical Practice III Challenge Problems Part IV Answer Key Error: click "Not Ã¨ a robot", then try downloading again. again. again.

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