

Composition of functions worksheet pdf

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

$$\begin{aligned} \text{If } f(x) = x^2 - 3 \text{ and } g(x) = 5x, \text{ find } f(g(-3)). \\ f(x) = 5x & \quad f(-3) = (-3)^2 - 3 \\ g(-3) = 5(-3) & \quad f(-3) = 9 - 3 \\ g(-3) = -15 & \quad f(-3) = 6 \\ (-15)(6) & \quad -90 \end{aligned}$$

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 $g(x)$.

($f \circ g$)(x) NOT multiplication!
Means find $\{f(g(x))\}$, therefore $g(x)$ will be your input for $f(x)$
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f(x) = x^2 **g(x) = $x - 1$** **h(x) = $2x + 5$** **j(x) = $6x$** and **k(x) = $x^2 + 2x + 1$** . Find:

1) $(f \circ h)(4)$ $\boxed{6(2(4)+5)}$ 2) $g(k(4))$ $\boxed{(4^2+2(4)+1)-1}$ 3) $(h \circ f)(-5)$
 $\boxed{6(1+5)}$ $\boxed{16+8+1}-1$ $\boxed{(25)-1}$
 $\boxed{36}$ $\boxed{24}$

4) $k(h(-1))$ $\boxed{(2(-1)+5)^2 + 2(2(-1)+5) + 1}$ 5) $g(j(h(4)))$ $\boxed{(6(2(4)+5))-1}$
 $\boxed{(3)^2 + 2(3)+1}$ $\boxed{6(13)-1}$
 $\boxed{9+6+1}$ $\boxed{78-1}$
 $\boxed{16}$ $\boxed{77}$

6) $(h \circ g)(x)$ $\boxed{2(x-1)+5}$ 7) $(f \circ h)(x)$ $\boxed{(2x+5)^2}$ 8) $(j \circ h)(x)$ $\boxed{6(2x+5)}$ 9) $(k \circ j)(x)$ $\boxed{(6x)^2 + 2(6x)+1}$
 $\boxed{2x^2-2+5}$ $\boxed{(2x+5)(2x+5)}$ $\boxed{12x+30}$ $\boxed{36x^2+12x+1}$

10) $(h \circ j)(x)$ $\boxed{2(6x)+5}$ 11) $(f \circ g)(x)$ $\boxed{(x-1)^2}$ 12) $(h \circ h)(x)$ $\boxed{2(2x+5)+5}$ 13) $(g \circ f)(x)$
 $\boxed{12x+5}$ $\boxed{(x-1)(x-1)}$ $\boxed{4x+10+5}$ $\boxed{(x^2)-1}$
 $\boxed{2x^2-2x+1}$ $\boxed{x^2-2x+1}$ $\boxed{4x+15}$ $\boxed{x^2-1}$

Composite Functions

$$(f \circ g)(x) = f(g(x))$$

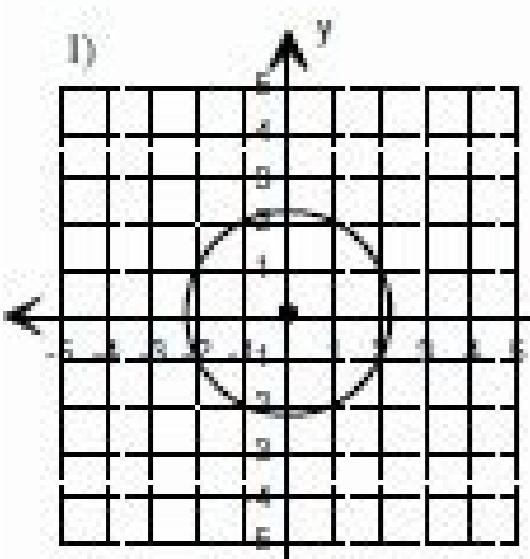
$$(g \circ f)(x) = g(f(x))$$

1) If $f(x) = x$ and $g(x) = x + 3$, find the following:
 $(f \circ g)(x) = f(g(x)) =$
 a) $(f \circ g)(3) =$
 b) $(f \circ g)(5) =$
 c) $(f \circ g)(7) =$
 d) $(f \circ g)(0) =$

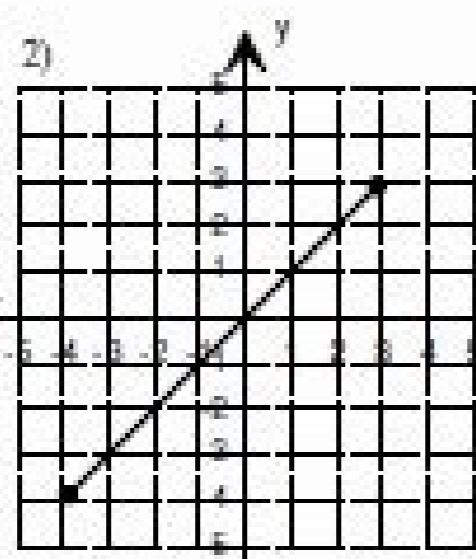
2) If $f(x) = x + 5$ and $g(x) = 2x$, find the following:
 $(f \circ g)(x) = f(g(x)) =$
 a) $(f \circ g)(5) =$
 b) $(f \circ g)(3) =$
 c) $(f \circ g)(2) =$
 d) $(f \circ g)(-1) =$
 e) $(f \circ g)(-7) =$
 f) $(f \circ g)(0) =$

3) If $f(x) = 2x + 1$ and $g(x) = x + 2$, find the following:
 $(f \circ g)(x) = f(g(x)) =$
 a) $(f \circ g)(5) =$
 b) $(f \circ g)(2) =$
 c) $(f \circ g)(0) =$
 d) $(f \circ g)(-4) =$
 e) $(f \circ g)(-6) =$

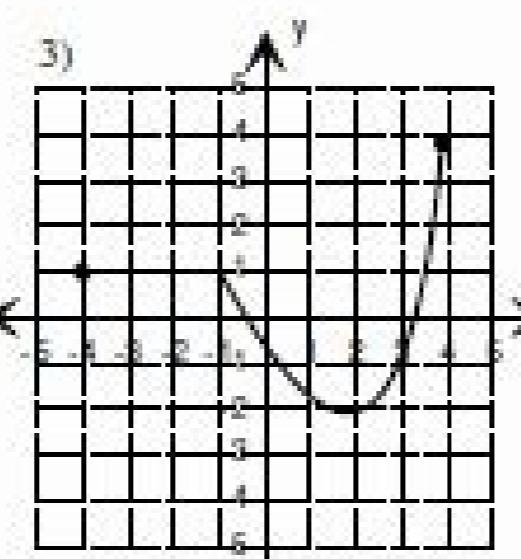
4) If $f(x) = x + 1$ and $g(x) = x^2$, find the following:
 $(f \circ g)(x) = f(g(x)) =$
 a) $(f \circ g)(-4) =$
 b) $(f \circ g)(-2) =$
 c) $(f \circ g)(0) =$
 d) $(f \circ g)(2) =$
 e) $(f \circ g)(0) =$

Function (or) Not a FunctionChoose the correct choice that describes the graph.

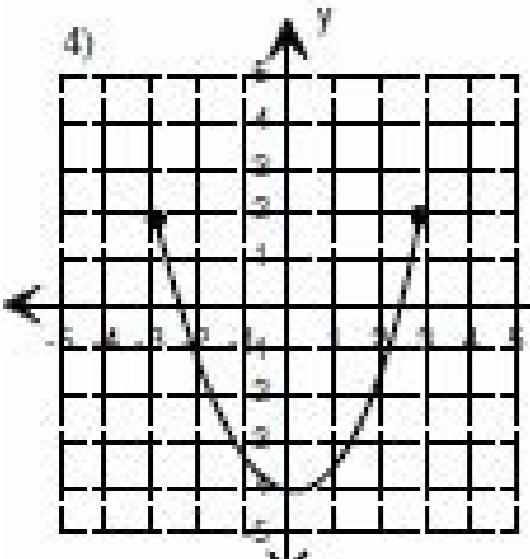
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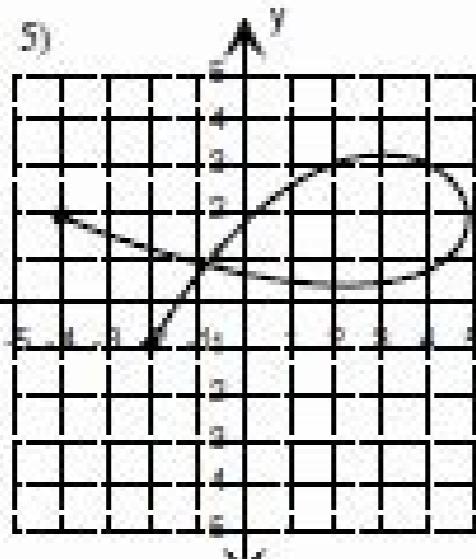
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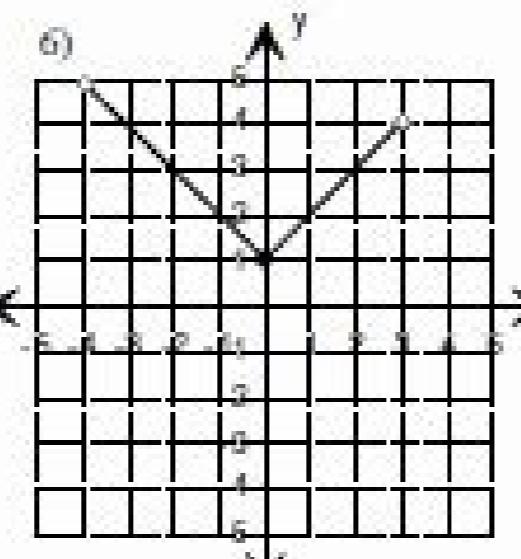
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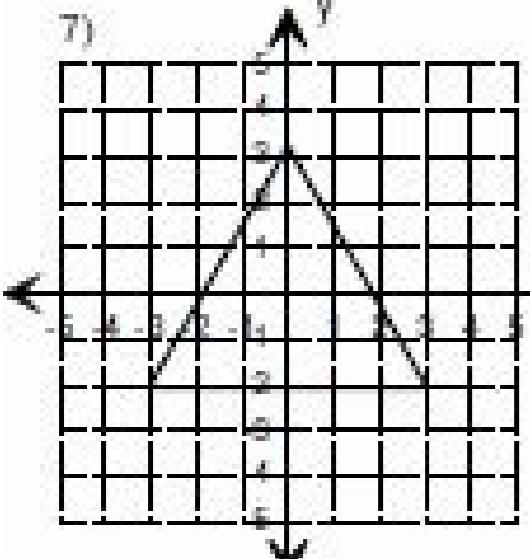
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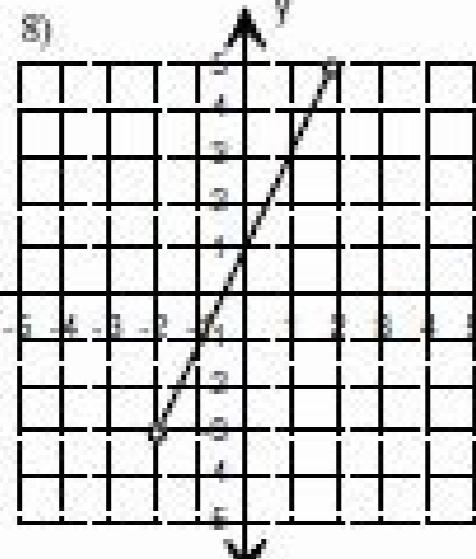
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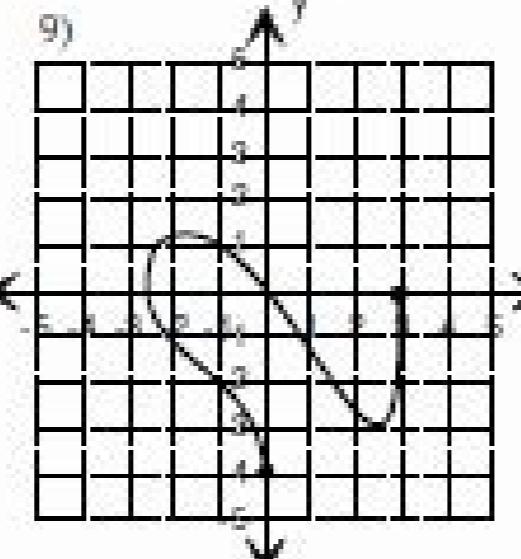
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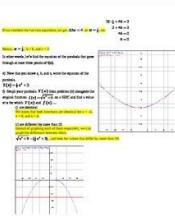
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