Algebra 2 Bellwork Thursday, September 11, 2014

For 1 and 2, solve for the indicated variable. State restrictions on the variables.

1. Solve for C $Q = \frac{C+P}{C-A}$

2. Solve for R $A\sqrt{KR-M}-B=G$

3. Use this set of points. $(6,-9),(2,4),(-1,3),(6,8),(4,-5)$

a. State the Domain and Range

b. Does this set of points represent a function?

4. Use these two functions: $f(x) = 9x-5$ $g(x) = 4x+3$

a. Find $g(2)$

b. Find $f(g(2))$

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For 1 and 2, solve for the indicated variable. State restrictions on the variables.

1. Solve for C $Q = \frac{C+P}{C-A}$

$Q(C-A) = C+P$

$QC-QA = C+P$

$QC-C = QA+P$

$C(Q-1) = QA+P$

$C = \frac{QA+P}{Q-1}$

$Q \neq 1$

$C-A \neq 0$

2. Solve for R $A\sqrt{KR-M}-B=G$

$R = \frac{\left(\frac{G+B}{A}\right)^2+M}{K}$

$A \neq 0 \quad K \neq 0$

$KR-M \geq 0$

$A\sqrt{KR-M} = G+B$

$\sqrt{KR-M} = \frac{G+B}{A}$

$KR-M = \left(\frac{G+B}{A}\right)^2$

$KR = \left(\frac{G+B}{A}\right)^2+M$

3. Use this set of points. $(6,-9),(2,4),(-1,3),(6,8),(4,-5)$

a. State the Domain and Range function?

Domain: $\{-1,2,4,6\}$

Range: $\{-9,-5,3,4,8\}$

b. Does this set of points represent a

No Because when $X=6$ Y is both -9 & 8

4. Use these two functions: $f(x) = 9x-5$ $g(x) = 4x+3$

a. Find $g(2)$

$g(2) = 4(2)+3$

$= 8+3$

$g(2) = 11$

b. Find $f(g(2))$ $\Rightarrow$ $f(11) = 9(11)-5$

$99-5$

$f(g(2)) = 94$