Algebra 1 - Intervention

Name Key

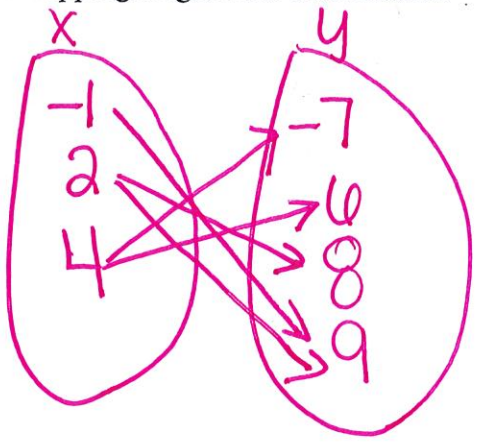
Functions Review

Use the relation {(4,6), (2,8), (-1,9), (2,9), (4, -7)} to answer questions 1-4.

1) What is the range of this relation?

{-7, 6, 8, 9}

2) Draw a mapping diagram for this relation.



3) Is this relation a function? Why or why not.

No, because not every # in domain goes to only 1 # in range

4) What is the domain of this relation?

{-1, 2, 4}

Use the function $f(x) = -5x + 7$ to answer questions 5 & 6.

5) Find $f(4)$

$f(4) = -5x + 7$
$-5(4) + 7$
$-20 + 7$
$f(4) = -13$

6) Find $f(-8)$

$f(-8) = -5(-8) + 7$
$40 + 7$
$f(-8) = 47$

Use the relation {(6,-3), (-2,9), (2,4), (9,1), (7,-4)} to answer questions 7 - 10.

7) Find $f(2)$ = 4

8) If $f(x) = -4$ what is x? = 7

9) If $f(x) = -3$, what is x?

$x = 6$

10) If $f(x) = 1$, what is x?

$x = 9$

11) What ordered pair $f(3) = 2$?

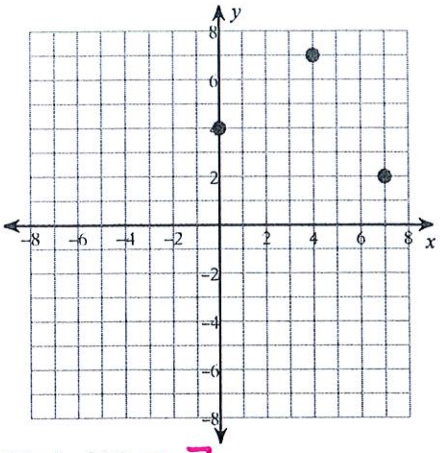
(3,2)

12) Which represents $f(-1) = 9$?

(-1,9)

Use the graph of $f(x)$, below, to answer questions 13 & 16.

13)



Find $f(4)$ = 7

14) If $f(x) = 2$, find x.

X = 7

15) If $f(x) = 4$, find x.

X = 0

16) Find $f(7)$ = 2