





1. Evaluate the following expressions given the functions below:

$g(x) = -3x + 1$      $f(x) = x^2 + 7$      $h(x) = \frac{12}{x}$      $j(x) = 2x + 9$

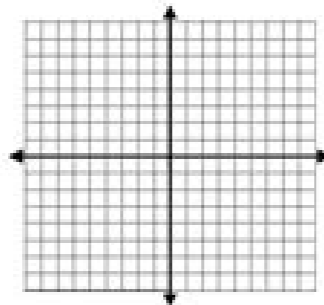
a.  $g(10) =$                       b.  $f(3) =$                       c.  $h(-2) =$

d.  $j(7) =$                       e.  $h(a) =$                       f.  $g(b+c) =$

h. Find  $x$  if  $g(x) = 16$     i. Find  $x$  if  $h(x) = -2$     j. Find  $x$  if  $f(x) = 23$

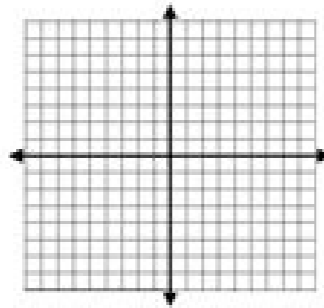
2. Given  $f(x) = 3 - 4x$ . Fill in the table and then sketch a graph.

| x  | f(x) |
|----|------|
| -6 |      |
| -3 |      |
| 0  |      |
| 1  |      |
|    | -5   |



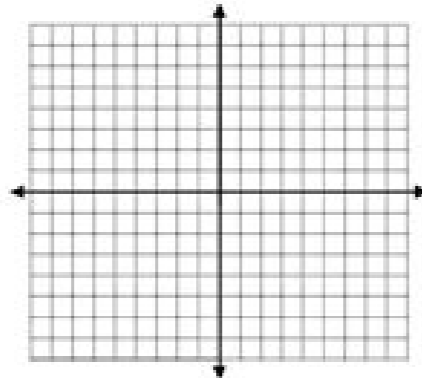
3. Given  $f(x) = \sqrt{x+1}$ . Fill in the table and then sketch a graph.

| x   | f(x) |
|-----|------|
| 3   |      |
| 0   |      |
| -10 |      |
| 2   |      |
|     | 6    |



4. Translate the following statements into coordinate points, then plot them!

- a.  $f(-1) = 1$
- b.  $f(2) = 7$
- c.  $f(1) = -1$
- d.  $f(3) = 0$



**Graph both inequalities and shade the intersection.**

**Step 4: Graph the system of inequalities**

In order to graph the first inequality:  $7x + 4y < 40$ , we must find the x and y intercept.

To find the x intercept, let  $y = 0$ .

$$7x + 4(0) = 40$$

$$7x = 40$$

$$\frac{7x}{7} = \frac{40}{7}$$

$x = 5.7$  (You'll have to estimate this point on the graph, but that's ok because you can't buy .7 of a package of wings anyway!)

To find the y intercept, let  $x = 0$

$$7(0) + 4y = 40$$

$$\frac{4y}{4} = \frac{40}{4}$$

$y = 10$  Plot your y intercept as 10.

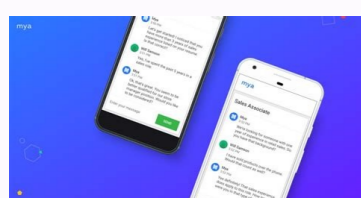
Plot your two intercepts and then draw your line. This line is dotted since the inequality symbol is  $<$ .

Substitute (0,0) to determine which side to shade.

$$7(0) + 4(0) < 40$$

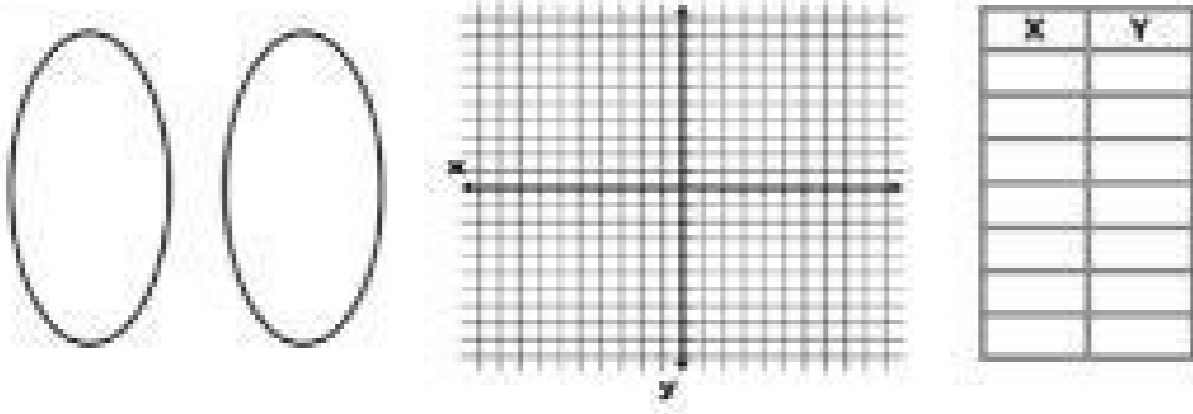
$0 < 40$  – Yes, this is true, so we will shade the side that contains (0,0).

Remember  $y \geq 5$  is going to be a horizontal line.



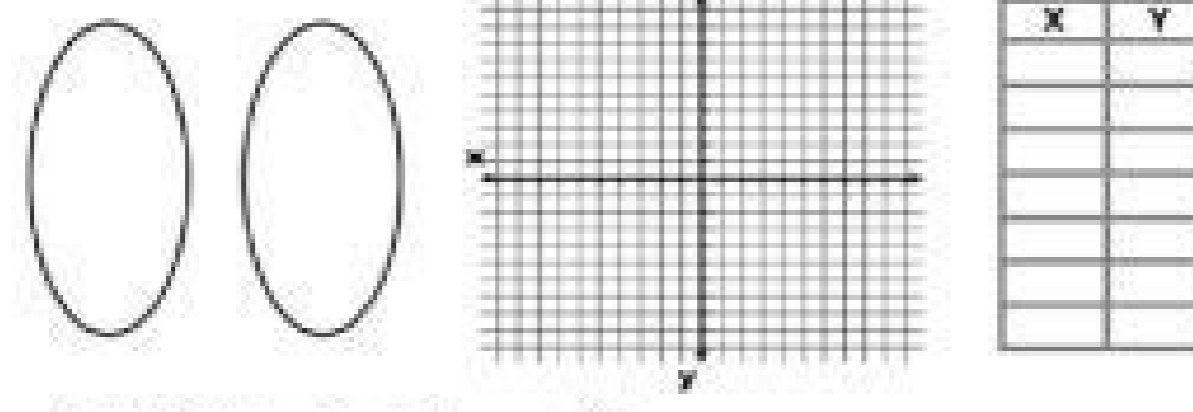
Representing Relations

DOMAIN: \_\_\_\_\_  
RANGE: \_\_\_\_\_



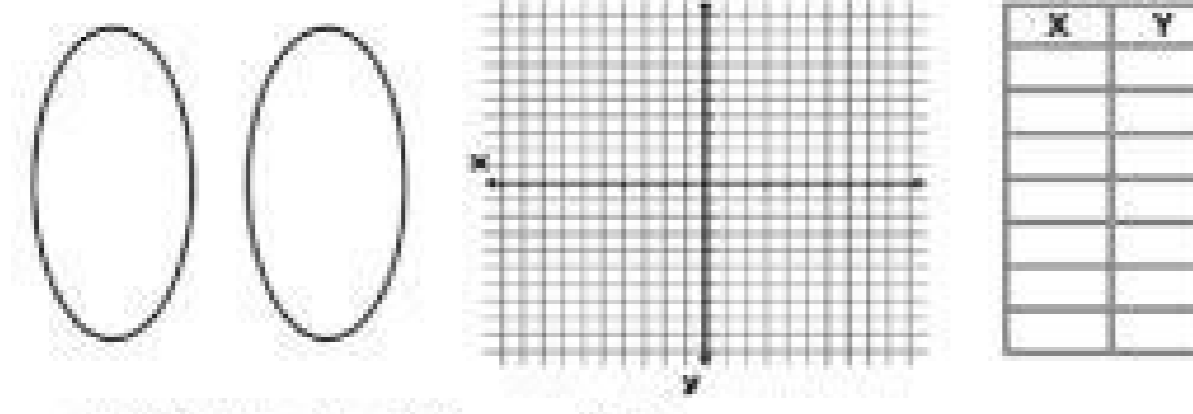
Is this Relation a Function? \_\_\_\_\_ Why? \_\_\_\_\_

DOMAIN: \_\_\_\_\_  
RANGE: \_\_\_\_\_



Is this Relation a Function? \_\_\_\_\_ Why? \_\_\_\_\_

DOMAIN: \_\_\_\_\_  
RANGE: \_\_\_\_\_



Is this Relation a Function? \_\_\_\_\_ Why? \_\_\_\_\_



Embed Size (px) 344 x 292429 x 357514 x 422599 x 487  
 Restriction Mapping Practice Questions Q1 3 : Linear Restriction Mapping 1. Cut by Fragment Size (kb) A 11, 6, 5 B 14, 8 C 16, 6 A&B 8, 6, 5, 3 A&C 11, 5, 5, 1 B&C 8, 8, 62. Cut by D E F D&E D&F E&F F Fragment Size (kb) 18, 5 15, 7, 1 20, 3 10, 7, 5, 1 15, 5, 3 15, 4, 3, 13. Cut by G H I G&H G&I  
 G Fragment Size (kb) 14, 1, 9, 6 7, 5, 3, 9, 5, 1 7, 5, 2, 1 5, 4, 3, 3 Q4 7: Circular Restriction Mapping 4. Cut by A B C A&B A&C B&C Fragment Size (kb) 17 17 10, 7 12, 5 10, 6, 1 7, 6, 45. Plasmid pRIT450 is 7.0 kb in length and has single PstI, EcoRI, and BamHI sites. You have cut the plasmid with PstI and inserted a 4.0 kb fragment into the site. From  
 the data below, determine the restriction map of the resulting plasmid. Cut by PstI EcoRI BamHI PstI + EcoRI PstI + BamHI EcoRI + BamHI Fragment Size (kb) 7.0, 4.0 6.0, 5.0 8.9, 2.1 4.3, 3.3, 2.7, 0.7 6.1, 2.8, 1.2, 0.9 5.0, 2.1, 2.1, 1.86. Plasmid pRIT451 was cut with BamHI, HindIII, and PstI. From the data below, determine the map. Cut by BamHI  
 HindIII PstI BamHI + HindIII BamHI + PstI HindIII + PstI Fragment Size (kb) 5.1, 4.5, 3.8 8.1, 5.3 13.4 5.1, 3.3, 2.5, 2.0, 0.5 5.1, 4.5, 2.5, 1.3 8.1, 3.3, 2.07. Plasmid pRIT452 was cut with SmaI, BglII, and AvaI. From the data below, determine the map. Cut by SmaI BglII AvaI SmaI + BglII SmaI + AvaI AvaI + BglII Fragment Size (kb) 5.9, 4.3 8.2, 2.0  
 5.3, 4.9 5.4, 2.8, 1.5, 0.5 3.3, 2.6, 2.3, 2.0 5.3, 2.1, 2.0, 0.8 Bio2250 - Sample Restriction Mapping Problems In each problem, three restriction endonucleases are used to cut a piece of DNA, singly and in pairwise combination. Sizes of fragments are listed in order of size, not in linear order. Determine the correct order of restriction sites, and draw the  
 map, with the intervals between sites labelled. ) 11, 6, 5 B) 14, 8 C) 16, 6 A x B) 8, 6, 5, 3 A x C) 11, 5, 5, 1 B x C) 8, 8, 6 Worked Example D) 18, 5 E) 15, 7, 1 F) 20, 3 D x E) 10, 7, 5, 1 D x F) 15, 5, 3 E x F) 15, 4, 3, 1 J) 14, 1 H) 9, 6 I) 7, 5, 3 G x H) 9, 5, 1 G x I) 7, 5, 2, 1 H x I) 5, 4, 3, 3 Worked Example J) 14, 6, 1 K) 15, 6 L) 11, 7, 3 J x K) 9, 6, 5,  
 1 J x L) 7, 6, 5, 2, 1 K x L) 11, 4, 3, 3 Circular Restriction Mapping A) 17 B) 17 C) 10, 7 A x B ) 12, 5 A x C ) 10, 6, 1 B x C ) 7, 6, 4 All text material ©2015 by Steven M. Carr

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