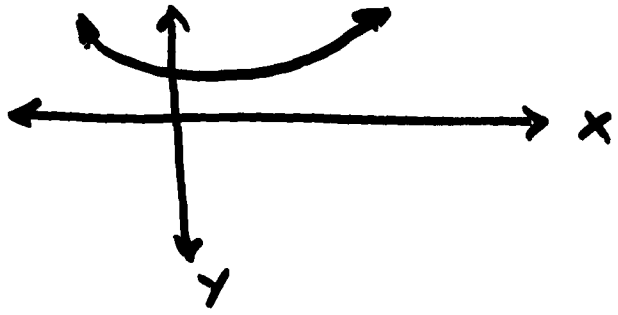
BE-1B FRIDAY 8-10-07

FUNCTION OR NOT AND WHY
(WRITE OUT ANSWERS)

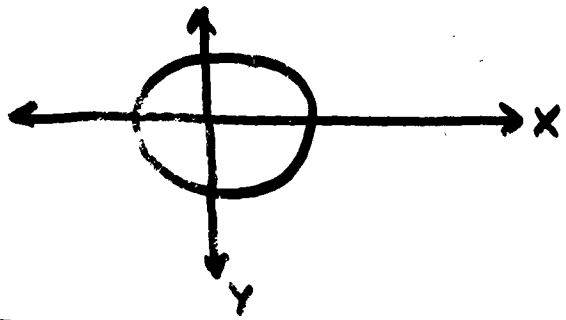
① $\{(3,6),(4,2),(3,2)\}$

② $\{(3,6),(4,2),(2,2)\}$

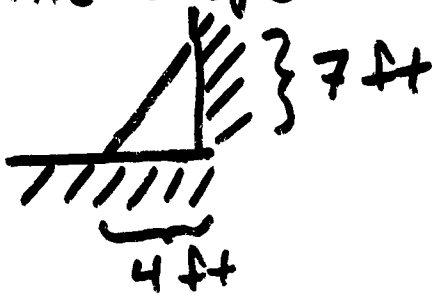
③



④



⑤ WHAT IS THE SLOPE OF THE LADDER?



RELATION - A SET OF ORDERED PAIRS

EX) $\{(5, 3), (6, 8), (6, 2)\}$

SET - A COLLECTION OF THINGS, IN MATH THIS "COLLECTION" WILL USUALLY INVOLVE NUMBERS

SET NOTATION - $\{x, x, x\}$

braces

FUNCTION - A RELATION WHERE THE 1ST ITEM IN THE ORDERED PAIR IS PAIRED WITH ONLY ONE ITEM.

(x, y)

(d, r)

"x" drives or x is an exclusive date

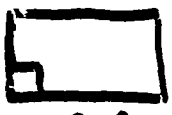
EX) $\{(4, 2), (4, 1)\}$ NOT $\{(4, 2), (3, 2)\}$ YES

How to show your work

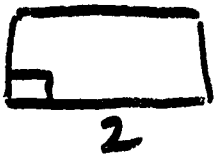
- Circle Problem Number
- Write out the original problem, double-check that you got it right.

* Show your work
- Box your answer
- Leave space between problems. A line under each problem may help. Use "white space"
- All work in pencil, loose-leaf

* Include units if they apply

Ex) 

Area = 8 ft²



Area = 8 unit²

- Show pride in your work.

EXAMPLE
HOW TO SHOW YOUR WORK

HW: Pg. 15 # 56-58, 64, 70

Maintain Your Skills

Mixed Review

Write an algebraic expression for each verbal expression. *(Lesson 1-1)*

51. the product of the third power of a and the fourth power of b
52. six less than three times the square of y
53. the sum of a and b increased by the quotient of b and a
54. four times the sum of r and s increased by twice the difference of r and s
55. triple the difference of 55 and the cube of w

Evaluate each expression. *(Lesson 1-1)*

56. 2^4 57. 12^1 58. 8^2 59. 4^4

Write a verbal expression for each algebraic expression. *(Lesson 1-1)*

60. $5n + \frac{n}{2}$ 61. $q^2 - 12$ 62. $\frac{(x+3)}{(x-2)^2}$ 63. $\frac{x^2}{a}$

Getting Ready for the Next Lesson

PREREQUISITE SKILL **Find the value of each expression.**

*(To review **operations with decimals and fractions**, see pages 798–801.)*

64. $0.5 - 0.0075$ 65. $5.6 + 1.612$ 66. $14.9968 \div 5.2$ 67. $2.36(-4.25)$

68. $4\frac{1}{8} - 1\frac{1}{2}$ 69. $\frac{3}{5} + 2\frac{5}{7}$ 70. $\frac{5}{6} \cdot \frac{4}{5}$ 71. $8 \div \frac{2}{9}$

Joe Goodstudent
8-9-07 Per. 1
Pg. 15 # 56-58, 64, 70

(56) $2^4 = 2 \cdot 2 \cdot 2 \cdot 2$

$4 \cdot 4 = \boxed{16}$

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(57) $12^1 = \boxed{12}$

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(58) $8^2 = 8 \cdot 8 = \boxed{64}$

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(64) $0.5 - 0.0075$

$0.5^{4}0^{9}0^{1}0$

$-\ 0.0075$

$\boxed{0.4925}$

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(70) $\frac{\cancel{1}^{1}}{\cancel{5}} \cdot \frac{4}{\cancel{5}_{1}} = \frac{4}{6} = \boxed{\frac{2}{3}}$

Homework

(A) Define a function.

Give an example of a relation that is a function and one that is not.

If not, show why it is not a function.

(B) Write your

- math likes/dislikes
- math class likes/dislikes