Pg. 116; 1, 2, 3, 5, 11, 17-47 (o)

1) reciprocal

2) quotient

3) $\frac{1}{32}$

5) $\frac{-5}{1}$

11) 2

19) -3

21) -1

23) -5

25) 2

27) -12

29) $-\frac{5}{6}$

31) 12

33) -48

35) $-\frac{1}{9}$

37) $-\frac{3}{2}$

39) $-\frac{1}{3}$

41) 4

43) $6x - 3$

45) already simplified

47) $11 + 2t$

pg. 111; 45-50 : pg. 116; 13-16 : pg. 117; 49-52

45) A

46) $W = 23.75n + 13,537.5$

47) 15,675 tons

48) $T = 15c + 60(F - C)$

49) $T = -45c + 480$

50) 2551 lb.

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13) all reals except $x = 4$

14) all reals

15) all reals except $x = 0$

16) all reals except $x = -2$

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49) all reals except $x = -2$

50) all reals except $x = 0$

51) all reals

52) all reals except $x = 7$

Function Pick-Up Day — **Oct. 04, 2006**

Find the Domain of a Function

...of a Function: $y = \frac{-x}{1-x}$

find the values of 'x' that work.

try $x=2$: $y = \frac{-(2)}{1-(2)} = \frac{-2}{-1} = 2$

It works ... Because I put a # in & Get one out

try $x=0$: $y = \frac{-(0)}{1-(0)} = \frac{0}{1} = 0$

It works ... Because I put a # in & Get one out

try $x=1$: $y = \frac{-(1)}{1-(1)} = \frac{-1}{0} =$ undefined

ERR:DIVIDE BY 0
1:Quit
2:Goto

Does NOT Work Since 0 is in the Denom.

Every # Works except $x=1$; Because the Denom. would be = to 0

$x \in \mathbb{R}, x \neq 1$

So: The Domain is All Numbers except 1!

*Hint: Find What Number will make the Bottom Part of the Fraction equal to zero! That is the Number that does not work.

ex $y = \frac{2x}{x-2}$

$x - 2 = 0$

$+2 \quad +2$

$x = 2$

All Real Numbers except $x = 2$

Answer

when $x = 2$ the Denom. $= 0$ & therefore will Not work

ex 2) $y = \frac{2(3x+17)}{x+7}$

$x + 7 = 0$

$-7 \quad -7$

$x = -7$

All Real #'s except $x = -7$

when $x = -7$ the Denom will be = to 0 ∴ therefore it does Not work!

O.T.L.

Chapter 2 Test Tomorrow

Blank sheet of Paper

Pg. 125 Chapter Test.

1-41 (o)

Seperate Sheet of Paper

Pg 118 Quiz 3 All