

Pg. 116; 1, 2, 3, 5, 11, 19 - 47 (0)

① reciprocal

②⑨ $-\frac{6}{5}$

④⑦ $11 + 2t$

② quotient

③① 12

③ $\frac{1}{32}$

③③ -48

④ $-\frac{5}{1}$

③⑤ $-\frac{9}{1}$

⑤ 2

③⑦ $-\frac{2}{2}$

⑩⑨ -3

③⑨ $-\frac{1}{3}$

⑫① -1

④① 4

⑬③ -5

④③ $6x - 3$

⑮⑤ 2

⑰② -12

⑮⑤ already simplified

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 $T = 15c + 60(p - c)$

49 $T = -45c + 480$

50 255 lb.

13 all reals except $x = 4$

14 all reals

15 all reals except $x = 0$

16 all reals except $x = -2$

49 all reals except $x = -2$

50 all reals except $x = 0$

51 all reals

52 all reals except $x = 7$

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

Does NOT Work Since 0 is in the Denom.

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

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

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 #'s
except $x=2$

Answer

When $x=2$
the Denom. = 0
∴ therefore will Not
work

ex2) $y = \frac{2(3x+17)}{x+7}$

$x+7 = 0$
 $-7 \quad -7$

 $x = -7$

All Real Numbers
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 (0)

Separate Sheet of Paper
Pg 118 Quizzes All