

Pg. 110; 1, 15-39 (0), Pg. 111; 41-44 (all)

1) $7, -5$

33) $-11-6r$

15) $3a, 5a$

35) $10m+19$

17) $m, 6m$

37) $2c+48$

19) $6w, -3w$

39) 7 is not a like term with $3x$ and $-2x$; $x+7$

21) $-7m$

27) $2c-5$

41) $x+(x-7)+x+(x-7); 4x-14$

25) $6r-7$

47) $x-2+(x+1)+(2x+3); 4x+12$

23) already simplified

43) $2(x+2)+(x+4)+2(x+2)+(x+4); 6x+16$

29) $6p^2+4p-2$

44) $(x+2)+9(x-2)+2(x-2); 12x-20$

31) $-27-4y$

2.8. Dividing with Real Numbers

Oct. 03, 2000

- Reciprocals: 2 Numbers whose product is 1.

ie: $\frac{2}{5} \times \frac{5}{2} = \frac{\cancel{2}}{\cancel{5}} \cdot \frac{\cancel{5}}{\cancel{2}} = \underline{\underline{1}}$

*Note: Every Number has an unique Reciprocal except for Zero!!

Division Rule: To divide a
Number 'a' by a non-zero
Number 'b', multiply 'a'
by the reciprocal of 'b'.

$$\text{ie: } a \div b = a \cdot \frac{1}{b} = \frac{a}{b}$$

$$\text{ex 1)} -1 \div 3 = -1 \cdot \frac{1}{3} = \underline{\underline{-\frac{1}{3}}}$$

$$\text{ex 2)} 10 \div -2 = 10 \cdot \frac{1}{-2} = \frac{-10}{2} = \underline{\underline{-5}}$$

$$\text{ex 3)} 0 \div 5 = 0 \cdot \frac{1}{5} = \underline{\underline{0}}$$



$$\begin{aligned} \text{ex 4)} -39 \div -4\frac{1}{3} &= -39 \div -\frac{13}{3} \\ &= -39 \cdot \frac{3}{-13} = \underline{\underline{9}} \end{aligned}$$

Complex Fractions

$$\text{ex 1] } \frac{\left(\frac{-1}{3}\right)}{4} = -\frac{1}{3} \div 4 = -\frac{1}{3} \cdot \frac{1}{4} = \frac{-1}{12}$$

$$\text{ex 2] } \frac{1}{\left(\frac{-3}{4}\right)} = 1 \div -\frac{3}{4} = 1 \cdot \frac{4}{-3} = \frac{4}{-3}$$

Evaluate the Expression

$$\frac{-2a}{a+b}$$

when $a = -2$
 $b = -3$

$$\frac{-2(-2)}{(-2)+(-3)} = \frac{4}{-5} \quad \text{or} \quad \frac{-4}{5}$$

Simplify

No Grouping Symbols
All like terms Combined
All Fractions Reduced

$$\frac{32x-8}{4} = (32x-8) \div 4$$

$$= (32x-8) \cdot \frac{1}{4}$$

$$= \frac{1}{4}(32x) - \frac{1}{4}(8)$$

or

$$= \underline{\underline{8x-2}}$$

$$\frac{32x-8}{4} = \frac{8\cancel{32}x}{\cancel{4}} - \frac{8\cancel{2}}{\cancel{4}} = \underline{\underline{8x-2}}$$

O.T.L.

- ① Correct y-day's O.T.L.
- ② Pg 114 Blue Box
in the Notes
- ③ Pg 116-117: 1, 2, 3, 5,
11, 19-47(0)
- ④ Ch. 2. Test Thursday