Pg. 110; 1, 15-39 (o), Pg. 111; 41-48 (all)

1) 7, -5

15) 3a, 5a

17) m, 6m

19) $-6w, -3w$

21) $-7m$

23) $2c-5$

25) $6r-7$

27) already simplified

29) $6p^2+4p-7$

31) $-27-4y$

33) $-11-6r$

35) $10m+19$

37) $2c+48$

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

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

43) $x-2+(x+11)+(2x+3)$; $4x+12$

45) $2(x-2)+(x+4)+2(x-2)+(x+4)$; $6x+16$

49) $(x+2)+4(x-2)+2(x-2)$; $12x-20$

37

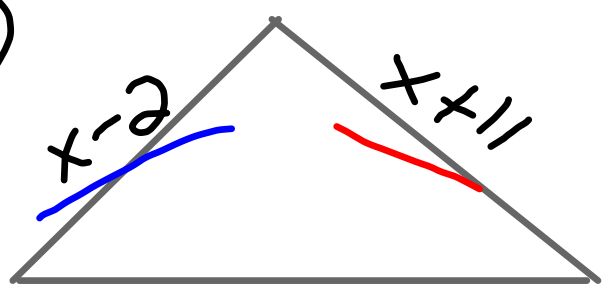
$9(c+3)-7(c-3)$

$9(c)+9(3)-7(c)++7(3)$

$9c+27-7c+21$

$2c+48$

42



$$P = x - 2 + x + 11 + 2x + 3$$

$$= 4x + 12$$

17 $1m+8+6m$

$m+6m$ are like terms

35 $5(2m+5)-6$

$5(2m)+5(5)-6$

$10m+25-6$

$10m+19$

(19)

$+6w - 12 - 3w + 2w^2$

$2w^2 - 9w - 12$

(29) $p^2 + 4p + 5p^2 - 2$

$p^2 + 5p^2$ are L.T.

2.8. Dividing with Real Numbers

Oct. 03, 200(

- Reciprocals: 2 Numbers whose product is 1.

ie: $\frac{2}{5} \cdot \frac{5}{2}$ $\quad \frac{2}{5} \cdot \frac{5}{2} = 1$

*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'.

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

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

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

ex 3) $0 \div \frac{5}{7} = 0 \cdot \frac{7}{5} = 0$

make it an improper fraction

ex 4) $-39 \div -4\frac{1}{3} = -39 \div \frac{-13}{3}$

$= -\frac{39}{1} \cdot \frac{3}{-13} = 9$

Complex Fractions

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

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

Evaluate the Expression

$$\frac{-2a}{a+b} \quad \text{when } a=-2,\ b=-3$$

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

Simplify

No Grouping Symbols
All like terms Combined
All Fractions Reduced

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

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

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

$$= 8x - 2$$

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(o)

④ Ch. 2. Test Thursday