8-6-19 6.5 Yellow PAGES Quiz 15 (Q15)

(13.)

$$\left(\frac{2}{x^2y}+\frac{3}{xy^2}\right)\cdot x^2y^2$$

LCD: x^2y^2

F	G
x	2
y	2

$$\left(\frac{3}{xy^2}+\frac{2}{x^2y}\right)\cdot x^2y^2$$

$\rightarrow$ LCD $= x^2y^2 = \dfrac{2\cdot y+3\cdot x}{3x+2y}$

$= (b.)$

(14.)

$$\left(\frac{2}{x^2y}+\frac{3}{xy^2}\right)\cdot x^2y^2$$

LCD: x^2y^2

F	G
x	2
y	2

$$\left(\frac{1}{xy^2}+\frac{2}{x^2y}\right)\cdot x^2y^2$$

$\rightarrow$ LCD $= x^2y^2 = \dfrac{2y+3x}{x+2y}$

(b.)

Q15 6.6

(15) $x + \frac{7}{x} = -8$

$\frac{x}{1} + \frac{7}{x} = \frac{-8}{1}$

LCD of $1, x, 1 = x$

$x \cdot \left(\frac{x}{1} + \frac{7}{x}\right) = x \cdot \left(\frac{-8}{1}\right)$

$x^2 + 7 = -8x$

$+8x \qquad +8x$

$x^2 + 8x + 7 = 0$

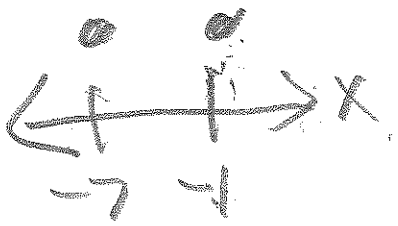
$(x+1)(x+7) = 0$

$(x+1) = 0$ OR $(x+7) = 0$

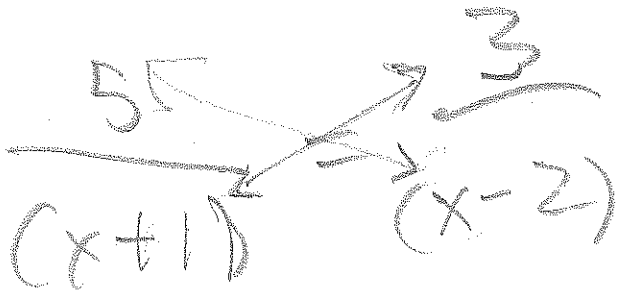
$x + 1 = 0$ OR $x + 7 = 0$

$-1 \quad -1 \qquad -7 \quad -7$

$x = -1$ OR $x = -7$ (c)



(6.)



$$5\cdot(x-2) = 3\cdot(x+1)$$

$$5x-10 = 3x+3$$

$$-3x \qquad -3x$$

$$2x-10 = 3$$

$$+10 \quad +10$$

$$2x = 13$$

$$x = \frac{13}{2} = 6.5$$

(17.)

$$\text{total rate} = \left(\frac{1}{7} + \frac{1}{10}\right)\frac{\text{sled}}{\text{h}}$$

$$\text{rate} \cdot t = 1 \text{ sled}$$

$$\left(\frac{1}{7} + \frac{1}{10}\right) \cdot t = 1$$

8-5-14
NOTES via
6.7 GCD

$$\left(\frac{1}{7} + \frac{1}{10}\right) \cdot t = \frac{1}{1}$$

$$\text{LCD of } 7, 10, 1 = 70$$

$$70 \cdot \left(\frac{1}{7} + \frac{1}{10}\right) \cdot t = 70 \cdot \frac{1}{1}$$

$$(10 + 7) \cdot t = 70$$

$$17t = 70$$

$$t = \frac{70}{17} \text{ h} = 4.1 \text{ h}$$

$$17\overline{)70.00}$$

$$-68$$

$$20$$

$$\frac{1}{30}$$

Quiz 11 pt 2

and yellow page. → start at 7-24-14.

see white pages starting at 7-24-14

7-24-notes correction

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6.1

(5.) $\dfrac{a-b}{4b-4a} = \dfrac{(-1)(b-a)}{4(b-a)}$

$= -\dfrac{1}{4}$