purple text
HW p.22 #s 7-16 9/13

7.) $3K - 1 = 7K + 2$
$-3K \qquad -3K$
$-1 = 4K + 2$
$-2 \qquad -2$
$\frac{-3}{4} = \frac{4K}{4}$

$K = -0.75$
or
$K = -\frac{3}{4}$

8.) $-2x + 10 = -2(x+5)$
$-2x + 10 = -2x - 10$
$+2x \qquad +2x$
$10 \neq -10$

no solution

9.) $8\left[\frac{-24}{1} - \frac{1}{8}p = \frac{3}{8}p\right]$
8 8 8

LCM 8

$-192 - 1p = 3p$
$+1p \qquad +1p$
$\frac{-192}{4} = \frac{4p}{4}$

$p = -48$

10.) $5(4w - 20) = 4(5w - 25)$
$20w - 100 = 20w - 100$

identity
all real solutions
or
infinite solutions

11.) $\frac{3}{2}(16n + 3) = 24n$

$24n + 4.5 = 24n$
$-24n \qquad -24n$
$4.5 \neq 0$

no solution

12.) $3(4z - 7) = -21 + 12z$
$12z - 21 = -21 + 12z$

all real solutions

13.)
$10[0.1x = 0.2(x+2)]$
$1x = 2(x+2)$
$1x = 2x + 4$
$-2x \qquad -2x$
$\frac{-1x}{-1} = \frac{4}{-1}$

$x = -4$

→

$\overset{2}{\cancel{12}} \quad \overset{4}{\cancel{12}} \quad \overset{3}{\cancel{12}}$

14.) $12\left[\frac{1}{\cancel{6}}d + \frac{2}{\cancel{3}} = \frac{1}{\cancel{4}}(d-2)\right]$

lcm

$\left.\begin{matrix}6\\3\\4\end{matrix}\right\} = 12$

$2d + 8 = 3(d-2)$

$2d + 8 = 3d - 6$

$-2d \qquad -2d$

$8 = d - 6$

$+6 \qquad +6$

$14 = d$

Find error 15.) $3x - 4 = 2x + 1$

$3x - 4 - 2x = 2x + 1 - 2x$

$x - 4 = 1$ ✓

$x - 4 + 4 = 1 - 4$

$x = -3$

error is that they did not add to the right side of the equation.

16.) $100\left[\underbrace{4.05}_{\text{hundredths}}p + 14.40 = 4.50(p+3)\right]$

$405p + 1440 = 450(p+3)$

$405p + 1440 = 450p + 1350$

$-405p \qquad -405p$

$1440 = 45p + 1350$

$-1350 \qquad -1350$

$\frac{90}{45} = \frac{45p}{45}$

$p = 2$