pg. 135; 3-15 (a) · 25-39 (o): 57, 58, 59

(3) not linear: exponent of variable is 2, not 1

(4) linear

(5) linear

(6) not linear: exponent of variable is 2, not 1

(7) -1

(8) 13

(9) -17

(10) 5

(11) 4

(12) 8

(13) 3

(14) -13

(15) -3

(21) 9

(23) -5

(29) 10

(31) 8

(33) -4

(35) 24

(37) -15

(39) -24

135 #58

$G = 4218$

$E + 418 = G$

$E + 418 = 4218$

$-418 \quad -418$

$E = 3800$

(8) $9 = x + 4$

$-5 \quad -5$

$4 = x$

$9 = x - 4$

$+4 \quad +4$

$13 = x$

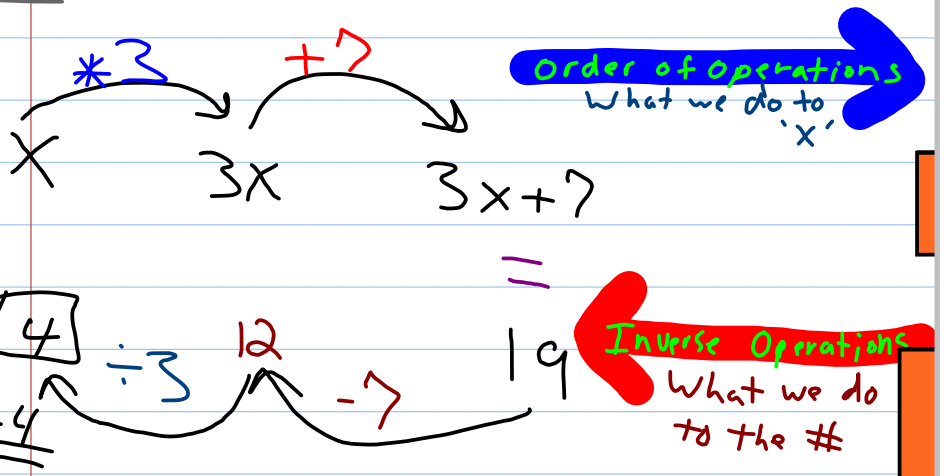
3.3. Solving Multi-Step Equations

Oct. 11, 2006

ex 1) $3x+7=19$

* get 'x' by itself

Script



Vertical

$3x+7=19$

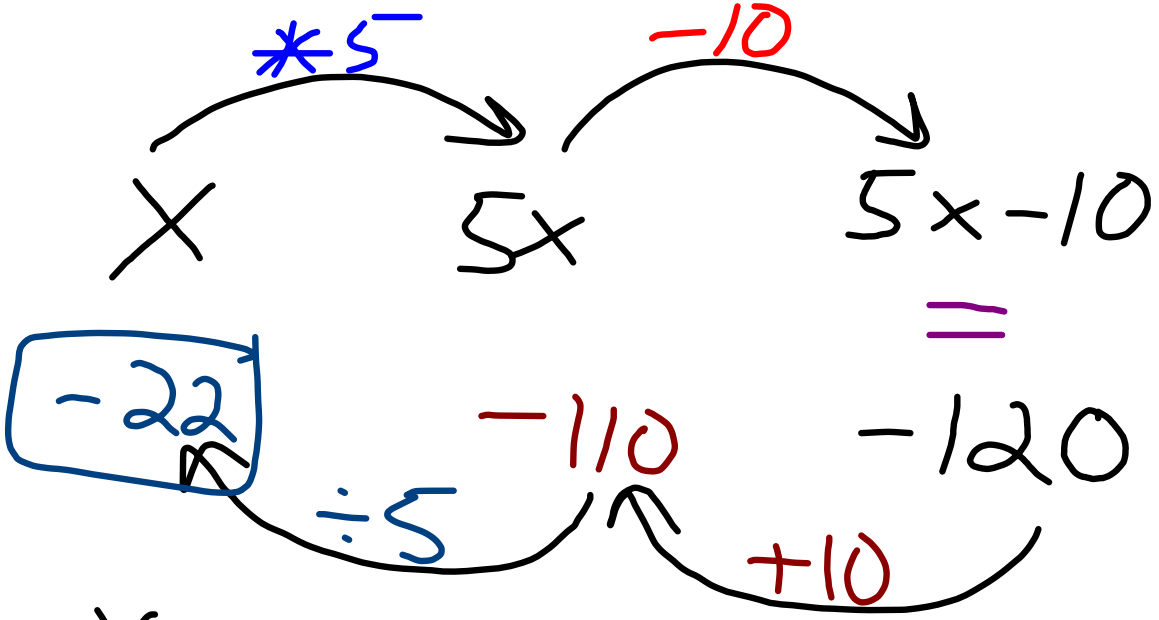
$-7 \quad -7$

$\frac{3x}{3} = \frac{12}{3}$

$x=4$

ex2) $5x - 10 = -120$

Script



$X = -22$

ex2)

Vertical

$$5x - 10 = -120$$

$$+10 \qquad +10$$

$$5x = -110$$

$$\frac{5x}{5} = \frac{-110}{5}$$

$$x = -22$$

ex 3)

Vertical

$7x - 3x - 8 = 24$

$4x - 8 = 24$

$+8 \quad +8$

$\frac{4x}{4} = \frac{32}{4}$

$x = 8$

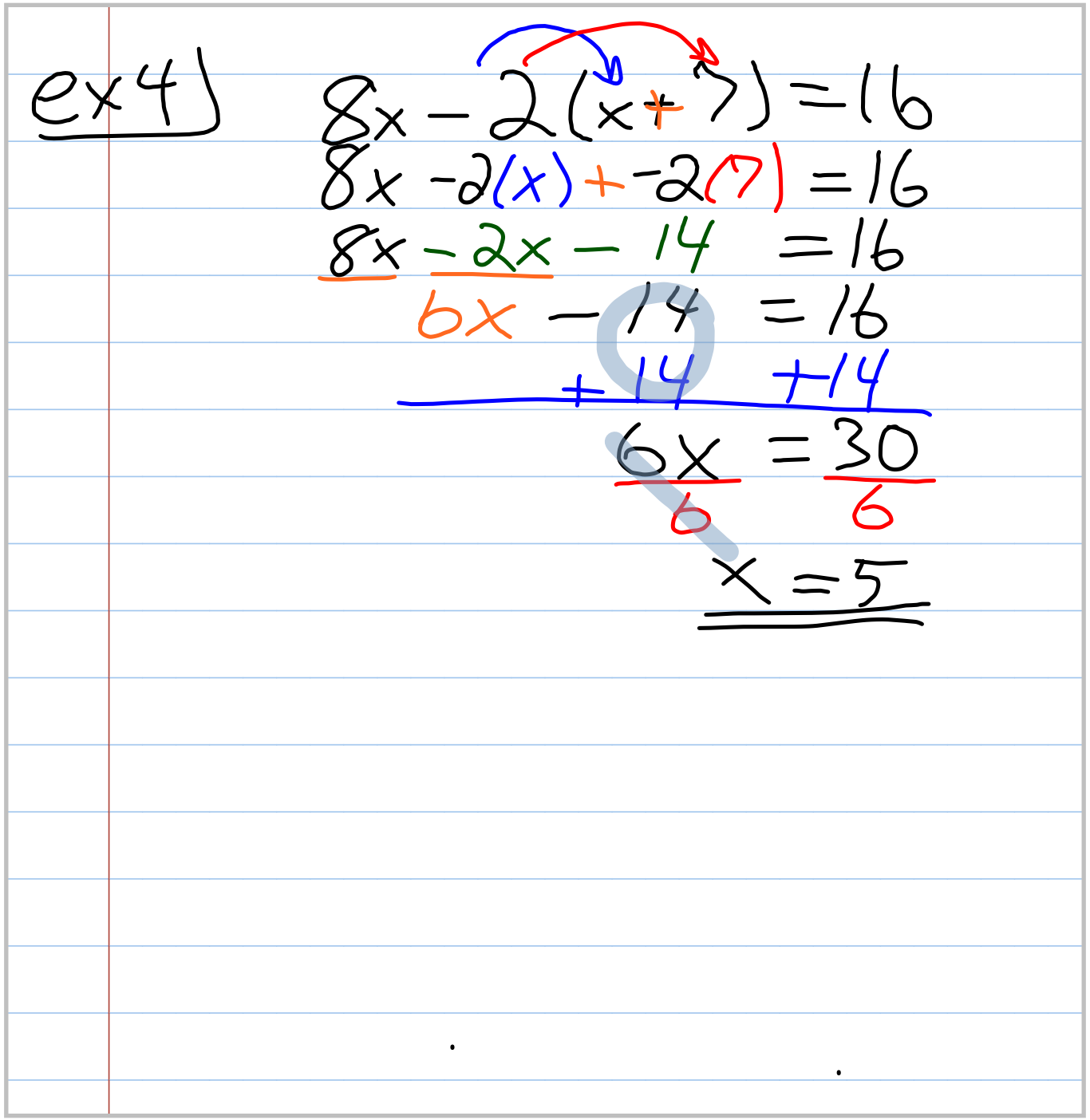
Check:

$7(8) - 3(8) - 8 \stackrel{?}{=} 24$

$56 - 24 - 8 \stackrel{?}{=} 24$

$32 - 8 \stackrel{?}{=} 24$

$24 = 24 \checkmark$


ex 4)
8x − 2(x + 7) = 16
8x − 2(x) + −2(7) = 16
8x − 2x − 14 = 16
6x − 14 = 16
+14 +14
6x = 30
6 6
x = 5

ex 5) $4 = \frac{2}{3}(x+3)$

$4 = \frac{2}{3}(x) + \frac{2}{3}(3)$

$4 = \frac{2}{3}x + 2$

$-2 \qquad -2$

$\frac{3}{2} \cdot 2 = \frac{3}{2}\left(\frac{2}{3}x\right)$

$3 = x$

$\frac{3}{12} \cdot 12 = \frac{3}{2}\left(\frac{2}{3}(x+3)\right)$

$6 = x + 3$

$-3 \quad -3$

$3 = x$

Real Life Math:

- There is going to be a concert in Cleveland.
- Gund Arena: 26,247 people
- CSU: 21,650 people.

*How many more seats have to be added to CSU to have as many seats as Gund?

$$x + CSU = Gund$$

$$x + 21{,}650 = 26{,}247$$

$$-21{,}650 \quad -21{,}650$$

$$x = 4{,}597$$

O.T.L.

① pg 133: Checkpoint
Do 1-6 (a) → To be turned in tomorrow Friday

② DO & Turn in Ch. Readiness Quiz pg 130
~~Today~~ Tomorrow also

③ Do & Turn in activity on pg 131
~~Today~~ Tomorrow

HW ④ pg 147-148:
19-43 (odd)

* Hint: use ex. 2 on pg 145 to help with #43

⑤ pg 135: 26-38 (even)

⑥ pg 141-142: 18-48 (even)
will be checked & Collected