Chapter 8.3

15 – 23

SKIP 16, 20, 21

15a) There are 2 ways to solve this problem.

$8 + 7(4+x) = 57$

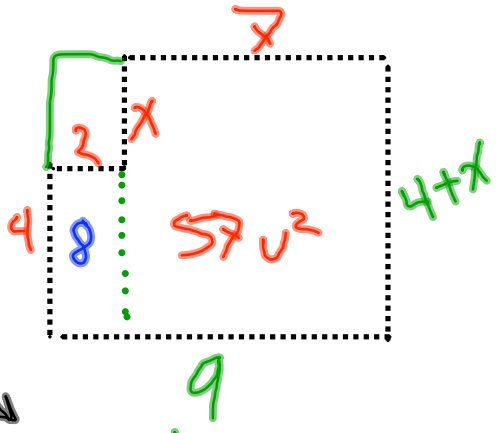
$8 + 28 + 7x = 57$

$36 + 7x = 57$

$-36 \quad -36$

$\frac{7x}{7} = \frac{21}{7}$

$x = 3$



$9(4+x) - 2x = 57$

$36 + 9x - 2x = 57$

$36 + 7x = 57$

$-36 \quad -36$

$7x = 21$

$x = 3$

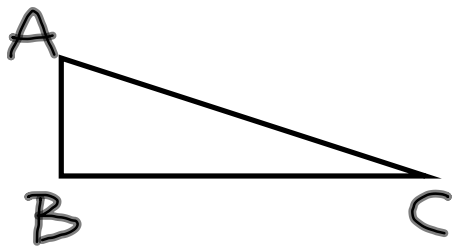
both ways are correct.

17)

$\angle A = (12x+5)^\circ$

$\angle B = (9x+15)^\circ$

$\angle C = (2x-1)^\circ$



$(12x+5)+(9x+15)+(2x-1)=180$

$12x+5+9x+15+2x-1=180$

$23x+19=180$

$-19 \quad -19$

$\frac{23x}{23} = \frac{161}{23}$

$x = 7$

18)

a) $x + 0.06x = 25.97$

original cost + amount of tax on bees wax = total cost