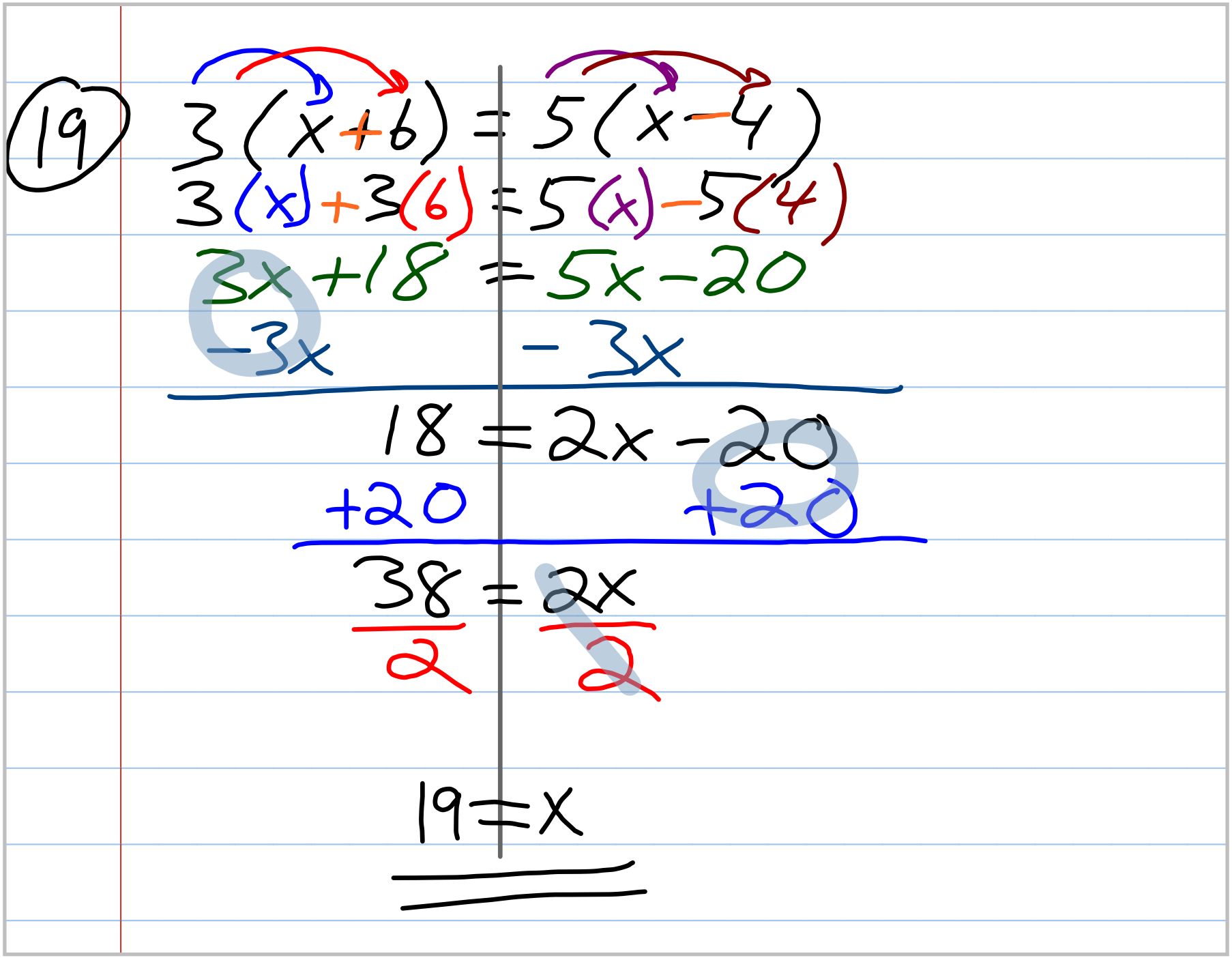

19
3(x+6) = 5(x-4)
3(x)+3(6) = 5(x)-5(4)
3x +18 = 5x -20
-3x -3x
18 = 2x -20
+20 +20
38 = 2x
2 2
19 = x

3.7 Formulas

Dec. 12, 2006

* Taking equations with more than 1 variable + solving for a special variable

Celsius vs. Fahrenheit

Get 'F' by itself

$\frac{9}{5} \cdot C = \frac{9}{5}\left(\frac{5}{9}(F-32)\right)$

Side Bar

$\frac{9}{5}\left(\frac{5}{9}\ \text{☺}\right) = 12\frac{9}{5}$

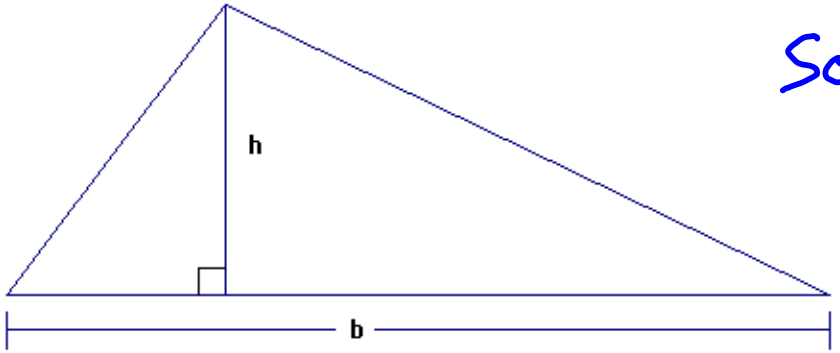
$\frac{9}{5}C = F - 32$

$+32 \qquad +32$

$\frac{9}{5}C + 32 = F \qquad C = \frac{5}{9}(F-32)$

The Formula for the Area of a △ is: $A = \frac{1}{2} b \cdot h$

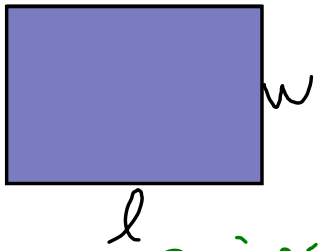
Solve for `b'



$2 \cdot A = 2\left(\frac{1}{2} b \cdot h\right)$

$\frac{2A}{h} = \frac{b \cdot h}{h}$

$\frac{2A}{h} = b$



The Formula for the Area of a Rectangle is:

$A = l \cdot w$

Solve for 'l'

$\frac{A}{w} = \frac{l \cdot w}{w}$

$\frac{A}{w} = l$

Use the formula above to find 'l' if the Area is $35ft^2$ & the $w = 7ft$

$l = \frac{A}{w}$

$l = \frac{35ft^2}{7ft} = \frac{35ft \cdot ft}{7ft}$

$l = 5ft$

Density : $d = \frac{m}{v}$

Solve for `m'

$v \cdot d = \frac{m}{v} \cdot v$

$vd = m$

O.T.L.

① pg 174-175 : 1-26 all