## Homework 6 June 22, 2016

Solve the following equations for the indicated variable.
1.) $2 j+5=k ; j$
2.) $x=\frac{1}{2}(y+4) ; y$
3.) Consider the following figure.

a. Solve $A=\frac{1}{2} b h$ for $b$.
b. Find the value of $b$ when $A=22$ and $h=4$.
4.) To go from Celsius to Fahrenheit we have the following equation: $F=\frac{9}{5} C+32$
a. Solve the formula above for Celsius $C$.
b. Normal body temperature is $98.6^{\circ}$. Use your formula from part a. to find this temperature in degrees Celsius.
5.) The formula for the perimeter of a rectangle is $P=2 l+2 w$. Find the area that has perimeter $P$ of 18 centimeters and length $l$ of 6 centimeters. (HINT: You can begin by solving the perimeter formula for $w$.)


