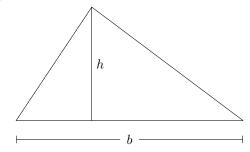
Homework 6 June 22, 2016

Solve the following equations for the indicated variable.

1.)
$$2j + 5 = k; j$$

2.)
$$x = \frac{1}{2}(y+4); y$$

3.) Consider the following figure.



a. Solve $A = \frac{1}{2}bh$ 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°. Use your formula from part **a.** to find this temperature in degrees Celsius.

5.) The formula for the perimeter of a rectangle is P = 2l + 2w. 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.)

