

WED/THU TEST #1 NO LECTURE.

$\begin{cases} A - 20 \\ B - 19 \\ C - 21 \end{cases}$   
 below "sea" level - 14.

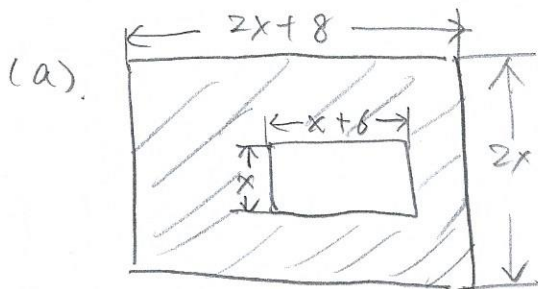
EXTRA CREDIT - Softball games

WBB ASSIGN EXAMPLES.

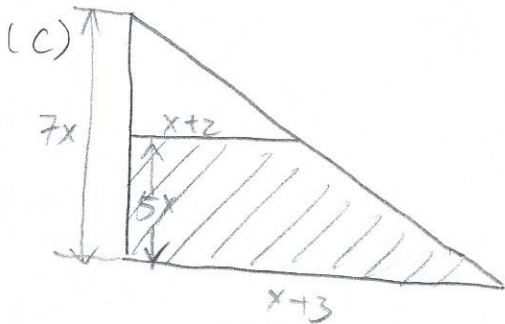
P. 2.19. Shaded areas =  $A_{total} - A_{white}$ .

Area of a rectangle = length  $\times$  width.

Area of a triangle =  $\frac{\text{base} \times \text{height}}{2}$ .



$$\begin{aligned}
 A_{shaded} &= A_{total} - A_{white} \\
 &= [(2x+8) \cdot (2x)] - [(x+6) \cdot (x)] \\
 &= [4x^2 + 16x] - [x^2 + 6x] \\
 &= 4x^2 + 16x - x^2 - 6x \\
 &= \boxed{3x^2 + 10x}
 \end{aligned}$$



$$\begin{aligned}
 A_{shade} &= A_{total} - A_{white} \\
 &= \frac{(x+3) \cdot 7x}{2} - \frac{(x+2)(5x)}{2} \\
 &= \frac{7x^2 + 21x}{2} - \frac{5x^2 + 10x}{2} \\
 &= \frac{7x^2 + 21x - 5x^2 - 10x}{2} \\
 &= \boxed{\frac{2x^2 + 11x}{2}}
 \end{aligned}$$