B. Solve each literal equation for the indicated variable.

1. $A = \frac{1}{2}(a+b)h$ *(solve for b)*

$2A = ah + bh$

$bh = ah - 2A$

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

1

2. $A = 2\pi r^2 + 2\pi rh$ *(solve for h)*

$\frac{A}{2\pi} = r^2 + rh$

$h = \frac{A}{2\pi r} - r$

2

C. Solve the following question. Be sure to define the variable and show the equation you used and clearly state your answer in a sentence.

1. Three-eighth's of Karen's monthly net income goes to pay her rent. What is her monthly net income if her rent is $750 per month?

$\frac{3}{8}x = 750$

$x = 2000$

1

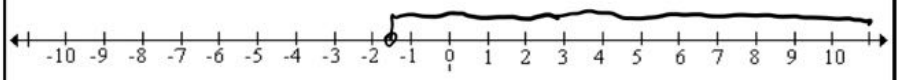
So $2000

D. Solve and graph the solution set of the following inequality.

1. $3x + 13 < 7x + 19$

$-4x < 6$

$x > -\frac{3}{2}$



2

Week 2 assignment

Clearly write your answers in the space provided.

A. Solve each equation; show your work for full marks.

1. $4(7x + 6) = 5(4x - 1) + 11$

$28x+24=20x-5+11$

$8x=-30$

$x=-3.75$

1

2. $\frac{-2(t-4)}{3} + 5t = \frac{t-1}{4}$

$-8(t-4)+20t=3t-3$

$15t=-35$

$t=-\frac{7}{3}$

3. $0.04x + 0.08(20 - x) = 1.4$

$-0.04x=-0.2$

$x=5$

2

4. $5w + 4 = 3(2w - 1) - w + 7$

$10w=0$

$w=0$

2

5. $\frac{t}{3} + t - \frac{t}{8} = \frac{t-1}{4}$

$\frac{4}{3}t-\frac{1}{8}t=\frac{t-1}{4}$

$\frac{16}{3}t-\frac{1}{2}=t-1$

$\frac{16}{3}t=\frac{3}{2}t-1$

$16t=\frac{9}{2}t-3$

$32t=9t-6$

$23t=-6$

$t=-\frac{6}{23}$

2

6. $5(2z + 3) - 4(3z - 1) = 2(9 - z)$

$10z+15-12z+4=18-2z$

$-2z+19=18-2z$

$0z=-1$

No sence

2