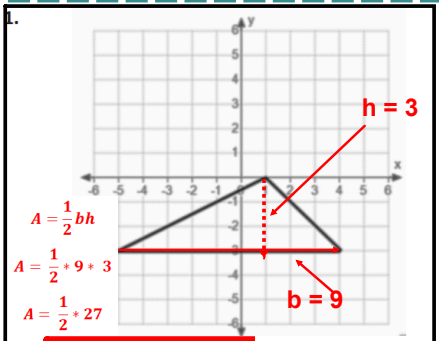
Problem Set SOLUTIONS G7 M3 L19:

Name: _____

Date: _____

Roster # ___

1.



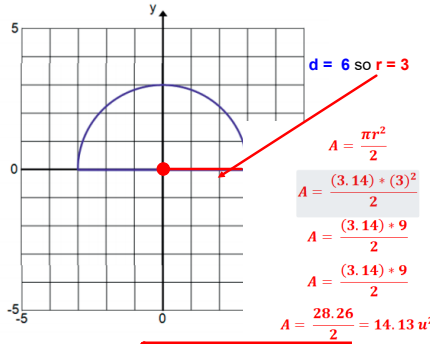
$A = \frac{1}{2}bh$

$A = \frac{1}{2} * 9 * 3$

$A = \frac{1}{2} * 27$

Area = 13.5 sq. units

2.



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

$A = \frac{(3.14) * (3)^2}{2}$

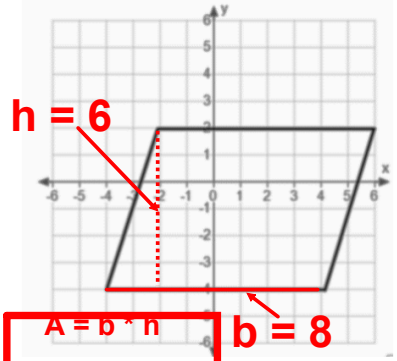
$A = \frac{(3.14) * 9}{2}$

$A = \frac{(3.14) * 9}{2}$

$A = \frac{28.26}{2} = 14.13\ u^2$

≈ 14.13 sq. units

3.

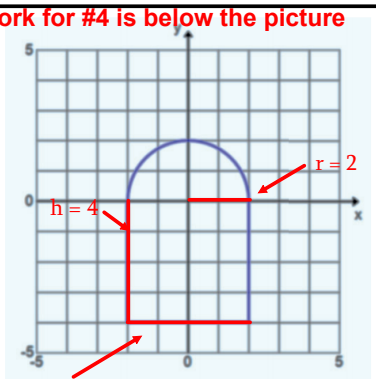


A = b * h

A = 8 * 6

Area = 48 sq. units

4. Work for #4 is below the picture



≈ 22.28 sq. units

Work for #4

A) Area of the HALF of a circle:

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

$A = \frac{(3.14) * (2)^2}{2}$

$A = \frac{(3.14) * 4}{2}$

$A = \frac{12.56}{2} = 6.28\ u^2$

B) Area of Square $= l * w$

$A = 4 * 4 = 16\ u^2$

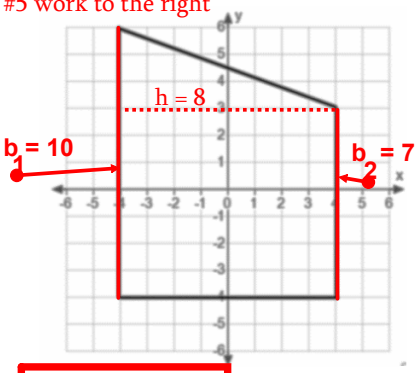
In sum: Add area to half circle + square

$A = 6.28\ u^2 + 16\ u^2 = 22.28\ u^2$

Trapezoid

Area of a trapezoid $= \frac{1}{2} \times$ (base 1 + base 2) $\times$ height

5. #5 work to the right



Area = 68 sq. units

$A = \frac{1}{2}(b_1 + b_2)h$

$A = \frac{1}{2}(7 + 10)8$

$A = \frac{1}{2}(17)8$

$A = \frac{1}{2} * 136$

$A = 68\ u^2$

Please check/Fix/correct your work. Be sure you email me or meet me online for questions.