Part 3 Solutions

(1.) subtract the areas

□ − ○

$12(12) - \pi(6)^2$

$144 - 3.14(36)$

$144 - 113.04$

30.96

$31.0\ cm^2$

(2) ○ − □

$\pi(5)^2 - (8)(6)$

$78.5 - 48$

$30.5\ m^2$

(3.) ○ − △

$\pi(7.5)^2 - \frac{1}{2}(12)(9)$

$176.625 - 54$

122.625

$122.6\ m^2$

(4.) Add the areas together

○ + □

$\pi(4)^2 + 6(8)$

$50.24 + 48$

98.24

$98.2\ in^2$

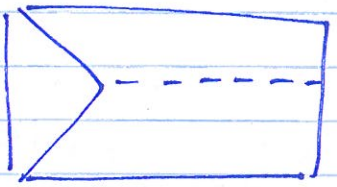
(5.) ½ ⌓ + □ + ½ ⌓

$\frac{1}{2}\pi(2)^2 + \frac{1}{2}(6)(4+10) + \frac{1}{2}(3.14)(5)^2$

$6.28 + 42 + 79$

127.28 $127.3\ in^2$

6.



two ways: A. add the two trapezoids

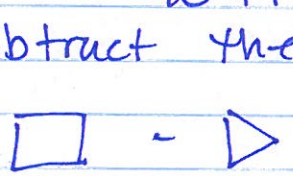
either option is 100% correct

$\frac{1}{2}(5)(8+10) + \frac{1}{2}(5)(8+10)$

$45 + 45$

$90\ ft^2$

B. subtract the △ from □

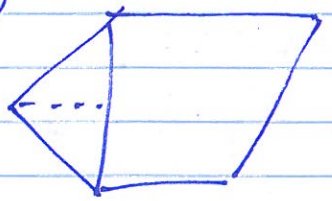


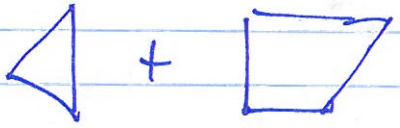
$10(10) - \frac{1}{2}(10)(2)$

$100 - 10$

$90\ ft^2$

7.





$\frac{1}{2}(12)(7) + \frac{1}{2}(12)(15+11)$

$42 + 156$

$198\ cm^2$