Quiz #2 - Due at the beginning of class Wednesday, March 3

Name: _______________________________________________

Make a copy of your work as we will go over this in class Wednesday, March 3. I will collect your work at the beginning of class Wednesday. If you are not going to be at class Wednesday, then it is your responsibility to get this to me BEFORE class Wednesday 3/3. There will be a 20% penalty if this is turned in later than the beginning of class on Wednesday, March 3.

1. Use one of the following terms to describe the polygons below. Write the name of each polygon beneath it in the space provided.

   Triangle  Quadrilateral  Pentagon  Hexagon  Octagon  Decagon  Dodecagon

   __________________  __________________  __________________

   __________________  __________________  __________________

   __________________  __________________  __________________

2. Use the lines a, b, c and d shown below to classify each statement in (a) through (d) as true or false. Write your response in the blank.

   a. The lines a and b are both parallel and vertical. __________

   b. The lines c and d are intersecting. __________

   c. The lines b and d are intersecting. __________

   d. The line c is horizontal. __________
3. Use Figure 7.28 on the top right of page 363 in your textbook to find the measure of the angles 1 through 7 if $m\angle 8 = 37^\circ$.

$m\angle 1 = \underline{\hspace{2cm}}$  
$m\angle 2 = \underline{\hspace{2cm}}$  
$m\angle 3 = \underline{\hspace{2cm}}$  
$m\angle 4 = \underline{\hspace{2cm}}$  
$m\angle 5 = \underline{\hspace{2cm}}$  
$m\angle 6 = \underline{\hspace{2cm}}$  
$m\angle 7 = \underline{\hspace{2cm}}$

4. Do #57 on page 363 of your textbook. Write your answer in the blank provided.

a. \underline{\hspace{2cm}} b. \underline{\hspace{2cm}} c. \underline{\hspace{2cm}} d. \underline{\hspace{2cm}} e. \underline{\hspace{2cm}}

f. \underline{\hspace{2cm}} g. \underline{\hspace{2cm}} h. \underline{\hspace{2cm}} i. \underline{\hspace{2cm}} j. \underline{\hspace{2cm}}

5. Write the answer to #16 on page 369 here: the third angle’s measure is \underline{\hspace{2cm}}

6. Write the answer to #20 on page 369 here: the measure of the exterior angle is \underline{\hspace{2cm}}

7. Write the answer to #34 on page 370 here: the value of $x$ is \underline{\hspace{2cm}}

8. Write the answer to #42 on page 370 here: the value of $x$ is \underline{\hspace{2cm}}

9. Do #4, 6, & 8 on page 375. State whether the triangles are similar or not similar in the blank provided.

(#4) \underline{\hspace{2cm}}  \hspace{1cm} (#6) \underline{\hspace{2cm}}  \hspace{1cm} (#8) \underline{\hspace{2cm}}

10. Write the answer to #24 on page 377 here: $c' = \underline{\hspace{2cm}}$. You must show your work below (i.e. show your proportions and solve them).

11. Write the answer to #32 on page 377 here: $x = \underline{\hspace{2cm}}$. You must show your work below (i.e. show your proportions and solve them).

12. Write the answer to #46 on page 378 here: the height of the tree (to the nearest foot) is \underline{\hspace{2cm}}

Show how you obtained this value below:

13. What is the circumference of a circle with diameter 10.5 inches? Round your result as appropriate.

\[
\text{Circumference} = \underline{\hspace{2cm}}
\]
14. What is the circumference of a circle with radius 82.95 mm? Round your result as appropriate.

\[
\text{Circumference} = \rule{4\text{cm}}{1\text{cm}}
\]

15. Write the answer to #46 on page 457 here: the perimeter is \rule{4\text{cm}}{1\text{cm}}

16. Write the answer to #47 on page 457 here: the distance around the figure is \rule{4\text{cm}}{1\text{cm}}

17. Write the answer to #50 on page 457 here: the distance around the figure is \rule{4\text{cm}}{1\text{cm}}

18. What is the length of a rectangle that has a perimeter of 400 inches and a width of 38 inches? Length is \rule{4\text{cm}}{1\text{cm}}

19. Write the answer to #56 on page 457 here: the value of \(x\) is \rule{4\text{cm}}{1\text{cm}}

For #’s 20-25, round answers to the nearest tenth of a square unit. Find the shaded area in each case.

20. Write the answer to #24 on page 466 here: \rule{4\text{cm}}{1\text{cm}}

21. Write the answer to #28 on page 466 here: \rule{4\text{cm}}{1\text{cm}}

22. Write the answer to #32 on page 466 here: \rule{4\text{cm}}{1\text{cm}}

23. Write the answer to #34 on page 466 here: \rule{4\text{cm}}{1\text{cm}}

24. Write the answer to #36 on page 466 here: \rule{4\text{cm}}{1\text{cm}}

25. Write the answer to #40 on page 466 here: \rule{4\text{cm}}{1\text{cm}}

26. Do #42 on page 467 of textbook.

Write the cost per square foot for Lot C here: \rule{4\text{cm}}{1\text{cm}}

Write the cost per square foot for Lot D here: \rule{4\text{cm}}{1\text{cm}}

27. Write the answer to #48 on page 467 here: \rule{4\text{cm}}{1\text{cm}}