St Da	udent:ate:	Instructor: Megan Rourke Course: MATH 1500 - Online	Assignment: 8.1-8.2 Homework
1.	In the figure shown to the right, one angle me given. Find 本a, 本b, and 本c.	asurement is <u>a 144°</u> b c	
	∆a=°		
	4 b =° 4 c =°		
2.	In the figure shown to the right, one angle me	asurement is given. Find 本pp	59 [°]
	ڴ-p =°		
3.	In the figure shown to the right, two angle mea	asurements are given. Determine the others.	A B 73° x k t 83° D C Where AB is parallel to CD
	ے۔ k =°		
	∆,t =°		
	۵_X =		

4. In the figure shown to the right, two angle measurements are given. Determine the others.



	Å-p =°
	∆-q =°
	۵-w=°
5.	For the triangle shown to the right, two angles are given. Find the third angle without using a protractor. D E E E E E E E E E E
	The measure of the third angle, $\angle E$, is°.
6.	For the triangle shown to the right, one angle is given. Find the other two angles (the angles labeled a are equal).
	The other two angles are°.
7.	For the triangle shown to the right, two angles are given. Find the third angle without using a protractor.
	The measure of the third angle is°.

8. In the figure shown to the right, two parallel lines are cut by a third line. Find ¼-w, ¼-x, ¼-y, and ¼-z.





9. The two parallel lines are cut by a third line in the figure to the right. Find the angles marked.

bc fa 55° e \g

What is 本a?	
∆a=°	0
What is Åb?	
⊈-b =°	0
What is Åc?	
⊈-c =°	
What is ₄d?	
∆-d =°	o
What is ≴e?	
<u>4</u> е=	o
What is 本f?	
本f=o	
What is 本g?	
⊈g =°	0
In the nine flance sho	own to the right, the twelve holt holes are equally spaced. What is the

10. In the pipe flange shown to the right, the twelve bolt holes are equally spaced. What is the spacing of the holes, in degrees?



° (Simplify your answer.)



14.	Find the perimeter and area of the figure shown to the right. (Assume right angles and parallel sides except where obviously otherwise.)	20'					
			26'				
	The perimeter of the given figure is (1)						
	The area of the figure is (2)						
	(1) \bigcirc ft. (2) \bigcirc ft. \bigcirc ft ² . \bigcirc ft ² .						
15.	Find the perimeter and area of the figure. (Assume right angles and parallel sides except where obviously otherwise.)	2	17.2 m 7.6 m 23.8 m 26.3 m				
	The perimeter of the figure is (1) (Simplify your answer. Round to the nearest tenth as needed.)		42.4 111				
	The area of the figure is (2) (Simplify your answer. Round to the nearest tenth as needed.)						
	(1) $\bigcirc m^2$. (2) $\bigcirc m$. $\bigcirc m$. $\bigcirc m^2$.						
16.	A playground 98 ft long and 58 ft wide is to be resurfaced at a cost of \$4.25 per sq ft. What will the resurfacing cost	?					
	The resurfacing will cost \$ (Simplify your answer. Type an integer or a decimal.)						

17.	Fertilizer must be applied to the planted area shown in the figure. If each bag covers 300 sq ft, how many bags	19 yd	
	are needed?	17 vd	
		14 yd 21 yd	
		39 ya	
	The number of bags needed are		
	(Round up to the nearest whole number.)		

18. A contractor needed a small workshop. He found a preengineered steel building advertised for \$12,760. If the building is a 24-ft by 24-ft square, what is the cost of the building per square foot?

The cost of the building per square foot is \$. (Round to the nearest cent as needed.)

9. 55			
55			
125			
125			
125			
125			
55			
10. 30	 	 	
11. 15			
(1) m.			
12. 43			
13. 62	 	 	
14. 92			
(1) ft.			
520			
(2) ft ² .			
15. 113.5			
(1) m.			
709.2			
(2) m ² .			

16. 24,157			
17. 13			
18. 22.15			