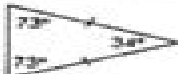
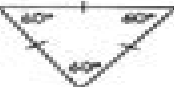


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Unit 4: Congruent Triangles
Homework 1: Classifying Triangles

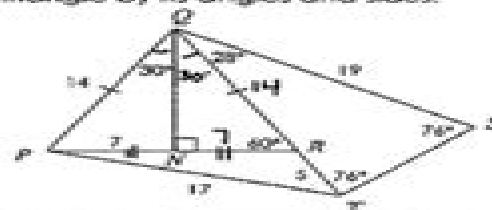
**** This is a 2-page document! ****

Directions: Classify each triangle by its angles and sides.

1. 	Acute, Isosceles
2. 	Right, Scalene
3. 	Obtuse, Scalene
4. 	Equiangular, Equilateral
5. 	Right, Isosceles
6. 	Acute, Scalene
7. 	Equiangular, Equilateral
8. 	Obtuse, Isosceles

9. $\overline{QN}$ bisects $\angle PQR$ and N is the midpoint of $\overline{PR}$. Classify each triangle by its angles and sides.

- a. $\triangle PQR$: Equiangular, Equilateral
b. $\triangle PNR$: Obtuse, Scalene
c. $\triangle QNR$: Acute, Isosceles
d. $\triangle QNP$: Right, Scalene



Directions: Find the measures of the sides of $\triangle DEF$, then classify it by its sides.

10. $D(8, -6)$, $E(-1, -3)$, $F(-2, 5)$

$$\overline{DE}: d = \sqrt{(8+1)^2 + (-6+3)^2} = \sqrt{90}$$

$$\overline{EF}: d = \sqrt{(-1+2)^2 + (-3-5)^2} = \sqrt{65}$$

$$\overline{DF}: d = \sqrt{(8+2)^2 + (-6-5)^2} = \sqrt{221}$$

Scalene

Mathematics Geometry Unit Triangles Key

Huangqi Zhang



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and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans

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