

Name: _____
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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. $\overline{EQ}$ bisects $\angle PQR$ and N is the midpoint of $\overline{PR}$. Classify each triangle by its angles and sides.

- a. ~~not~~ Equiangular, Equilateral
 b. ~~not~~ Obtuse, Scalene
 c. ~~not~~ Acute, Isosceles
 d. ~~not~~ Right, Scalene



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

16. $D(8, -4)$, $E(-1, -3)$, $F(-3, 5)$

$$DE: d = \sqrt{(8+1)^2 + (-4+3)^2} = \sqrt{40}$$

$$EF: d = \sqrt{(-1+3)^2 + (-3-5)^2} = \sqrt{40}$$

$$DF: d = \sqrt{(8+3)^2 + (-4-5)^2} = \sqrt{121}$$

Scalene

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