Geometric Property Review for CC Math 7

|  |
| --- |
| **Define the following words:** a) Isosceles Triangle: b) Complementary Angles: c) Supplementary Angles: d) Vertical Angles: e) Triangle Sum Theorem: f) Right Triangle: g) Triangle Inequality Theorem h) Obtuse Triangle |
| **Name each triangle by its sides and angles**a) b) c) 6 c m 8 c m 303010 c m \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **For # 1-4, find the measure of the missing angles** |
| 1)  | 2)  |
| 3)  48Find the measure of x | 4)  |
| **Name the type of angle formed in the diagram below:**  |
| a) ∠1 and ∠3b) ∠4 and ∠1c) ∠2 and ∠3d) ∠5 and ∠6 | 1) if ∠1 = 133, what is the measure of ∠2? 2) If ∠5 = 67, what is the measure of ∠6? 3) If ∠2 = 95, what is the measure of x if m∠3 = 4x - 5? 4) If ∠6 =2x +10 and ∠5=3x + 5, what is the value of x?  |
| **Find the measure of x and the missing angles** |
| x11156 | 5x +73x +3 |

Find all the missing angles without using a protractor. Explain your reasoning as you go.

 50

 64 40

How can you use triangle side lengths to determine if a triangle can be made? Give an example and non-example.

Measure the following angles using a protractor.

1.
2.