AMDG

Name
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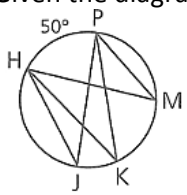
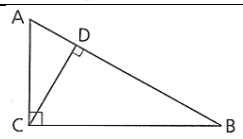
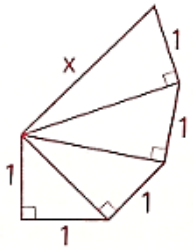
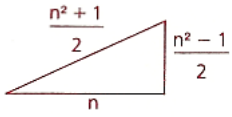
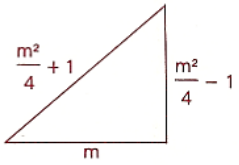
Acc Geo – 2
M 11 Jan 2016
9.1 – 9.7 Mixed Practice

1.	Given the diagram as marked, find the m∠HJP, m∠HKP, & m∠HMP. 
2.	 If AD = 7 and AB = 11, find CD & AC.
3.	Solve for x in the partial spiral to the right. 
	In 4 – 8, each of the following is a method for generating sets of whole numbers that represent the sides of a right triangle. You do not need to know these formulas, but this will be a great exercise for your algebraic skills as well as writing proof. Prove that each rule does indeed generate Pythagorean triples.
4.	**a** Rule of Pythagoras (n is any odd number.) 

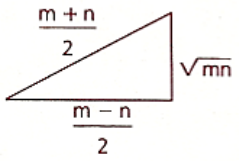
5.

b Rule of Plato
(m is any even number.)

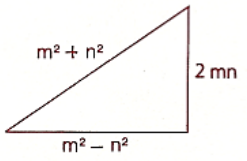


6.

c Rule of Euclid
(m and n are both odd or both even.)



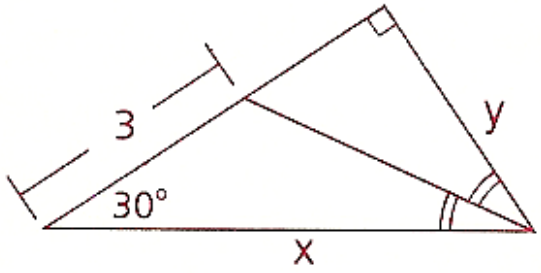
7. **d** Rule of Masères
(m and n are any two integers.)



8. **a** Find the ratio of the longer leg to the hypotenuse in a 30°-60°-90° triangle.

b Find the ratio of one of the legs to the hypotenuse in a 45°-45°-90° triangle.

9.



Find x & y

10.

Given: ABCD is a trapezoid ($\overline{DC} \parallel \overline{AB}$).
$AB = AD = 4$,
$\angle A = 60°$, $\angle C = 45°$

Find: **a** DC
b BC