Lesson 2.1 Practice Sheet

Write a conjecture that describes the pattern in each sequence. Then use your conjecture to find the next item in the sequence.	
1. Costs: \$4.50, \$6.75, \$9.00, . . .	2. Appointment times: 10:15am, 11:00am, 11:45am, . . .
3. 	4. 
5. 3, 3, 6, 9, 15, . . .	

Make a conjecture about each value or geometric relationship.	
6. the product of two even numbers	7. the relationship between a and b if $a + b = 0$.
8. the relationship between the set of points in a plane equidistant from Point A.	

Refer to the table of the number of wireless subscriptions in the United States by year.	
9. Make a graph that shows U.S. wireless use form 2002 to 2007. 10. Make a conjecture about U.S. wireless use in 2012.	U.S. Wireless Subscribership Year / Subscribers (Millions) 2002 — 140.8 2003 — 158.7 2004 — 182.1 2005 — 207.9 2006 — 233.0 2007 — 255.4 Source: Cellular Telecommunications and Internet Association 

Find a counterexample to show that each conjecture is false.	
11. If $\angle A \; and \; \angle B$ are complementary angles, then they share a common side.	12. If a ray intersects a segment at its midpoint, then the ray is perpendicular to the segment.