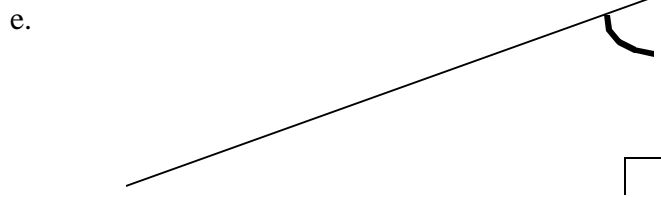
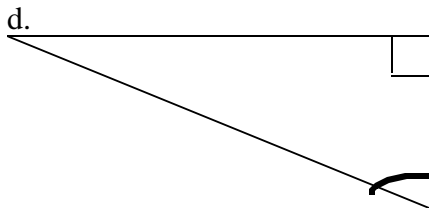
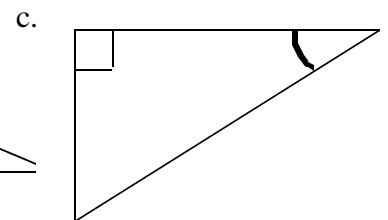
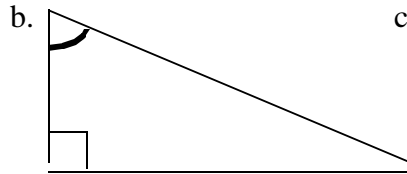
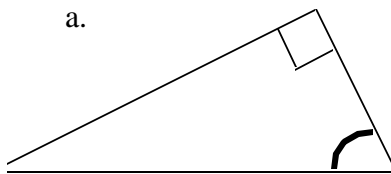


# Exercises

1. Name three different Pythagorean triples (the two sides and the hypotenuse of a right triangle are integers).
2. Carl, who is 5'8" tall, is standing 8 feet from a pole which is 20 feet high. He wants to hit the top of the pole with a ball. How far will the ball have to travel to reach the top of the pole? What are his chances of doing this?
3. On a bicycle trip, Gina rode her bike up a steep hill. She measured her distance to be 2.5 miles. She knew that the horizontal distance was 1.9 miles. How high was the hill?
4. Given the following triangles, which sides are adjacent to the given angle and which sides are opposite to the given angle?



5. From the triangle below state the ratios: (o-opposite, a-adjacent, h-hypotenuse)

a.  $o/h =$       b.  $a/h =$       c.  $o/a =$       d.  $h/o =$       e.  $h/a =$       f.  $a/o =$

