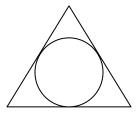
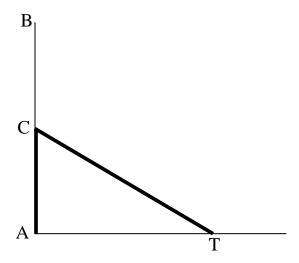
Pythagorean Theorem Challenge questions

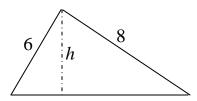
1. A circle is inscribed in an equilateral triangle of length 6. Find the radius of the circle



2. A vertical pole AB measuring 5 m snaps at point C. The pole remains in contact at point C and the top of the pole touches the ground at point T, a distance of 3 m from point A. Find AB



3. A slide is made by joining a 6 foot ladder to an 8 foot chute at right angles. Find the vertical height of the pole



4. Plane crash

Determine the distance between the start and the plane crash.