## SOH-CAH-TOA

## Directions: Give each trig ratio as a fraction in simplest form.



8. A wire is attached from the top of a 30 foot telephone pole to a stake in the ground. If the angle formed by the wire and the pole is $48^{\circ}$, what is the length of the wire?
9. An air plane climbs at an angle of $12^{\circ}$ with the ground. Find the horizontal distance it has traveled once it has reacher an altitude (height) of 500 ft .

