1. If $\tan \theta=\frac{3}{2^{2}}$, find the remaining 5 trigonometric ratios.
$\sin \theta=$ $\qquad$ $\sec \theta=$ $\qquad$ $\csc \theta=$ $\qquad$ $\cot \theta=$ $\qquad$ $\cos \theta=$ $\qquad$
2. Solve the triangle below. Round answers to the nearest tenth.

3. Solve the triangle below. Round answers to the nearest tenth..

4. A jet takes off and travels 56 miles to achieve an altitude of 12.6 miles. What is the angle of elevation for the jets path?
5. At 10:00 am, a person observes a hot air balloon climbing vertically in the air from a point 300 meters away from the launch pad for the balloon. The angle of elevation to the top of the balloon at this time is $25^{\circ}$. At 10:02am, the person observes that the angle of elevation to the balloon is now $60^{\circ}$. What is the change in altitude, to the nearest meter, for the balloon over the 2 minutes between the first and second observations?
