7. Carmen and Jamal are standing 5,280 feet apart on a straight, horizontal road. They observe a hot-air balloon between them directly above the road. The angle of elevation from Carmen is 60° and from Jamal is 75°. Draw a diagram to illustrate this situation and find the height of the balloon to the nearest foot.

\[
\frac{\sin 45}{5280} = \frac{\sin 75}{x} \quad \sin 60° = \frac{h}{7212.6141} \\
x \sin 45 = 5280 \sin 75 \\
x = 7212.6141
\]

8. An airplane traveling at a level altitude of 2050 feet sights the top of a 50-foot tower at an angle of depression of 28° from point A. After continuing in level flight to point B, the angle of depression to the same tower is 34°. Find, to the nearest foot, the distance that the plane traveled from point A to point B.

\[
\sin 28° = \frac{2000}{y} \quad \sin 146° = \frac{\sin 146°}{4260.1089} = \frac{\sin 6°}{x} \\
y = 4260.1089 \quad x \approx 1796 \text{ ft}
\]