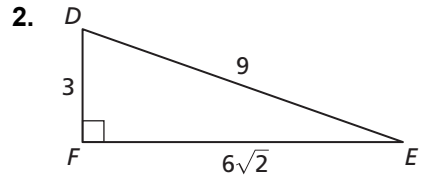
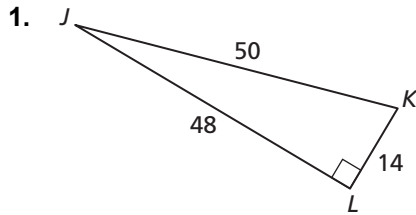


9.4

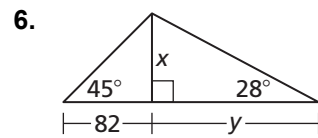
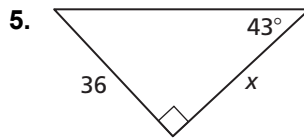
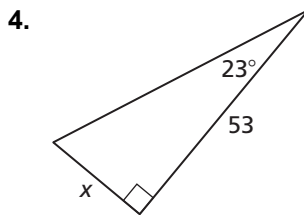
Practice B

In Exercises 1 and 2, find the tangents of the acute angles in the right triangle. Write each answer as a fraction and as a decimal rounded to four decimal places.

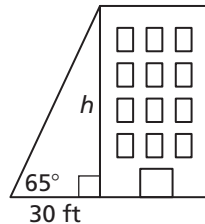


3. Draw and label the sides and angles of a triangle for which the tangents of the acute angles are equal to 1.

In Exercises 4–6, find the value(s) of the variable(s). Round your answer(s) to the nearest tenth.



7. A surveyor is standing 30 feet from the base of a tall building. The surveyor measures the angle of elevation from the ground to the top of the building to be 65° . Find the height h of the building to the nearest foot.



8. In the diagram, $\overline{RQ} \perp \overline{PQ}$, $m\angle QPS = 32^\circ$, $m\angle RPS = 24^\circ$, and $PQ = 14$. Find RS to the nearest tenth of a unit.

