Math 3 Advanced

Solve an isosceles triangle problem.

- 1. $\triangle ABC$ is isosceles with $\angle A$ and $\angle C$ being the base angles. If BC=7, what is the length of \overline{AB} ?
- 2. $\triangle PQR$ is isosceles with $\angle P$ and $\angle R$ being the base angles. If QR = 6, what is the length of \overline{PQ} ?
- 3. $\triangle ABC$ is isosceles with \overline{AB} and \overline{BC} being the legs. If the vertex angle has a measure of 40° , what is $m \angle C$?
- 4. $\triangle ABC$ is isosceles with \overline{AB} and \overline{BC} being the legs. If a base angle has a measure of 75°, what is $m \angle A$?
- 5. $\triangle PQR$ is isosceles with \overline{QR} and \overline{PR} being the legs. If $m\angle P = 54^{\circ}$, what is $m\angle R$?
- 6. $\triangle TUV$ is isosceles with \overline{TU} and \overline{TV} being the legs. If $m \angle V = 75^{\circ}$, what is $m \angle T$?
- 7. $\triangle PQR$ is isosceles with \overline{QR} and \overline{PR} being the legs. If $m \angle Q = 65^{\circ}$, what is $m \angle R$?
- 8. $\triangle TUV$ is isosceles with \overline{TU} and \overline{TV} being the legs. If $m \angle T = 62^{\circ}$, what is $m \angle U$?
- 9. $\triangle TUV$ is isosceles with \overline{UV} and \overline{TV} being the legs. If $m \angle U = 58^{\circ}$, what is $m \angle T$?
- 10. $\triangle ABC$ is isosceles with \overline{AB} and \overline{AC} being the legs. If $m \angle A = 40^{\circ}$, what is $m \angle C$?