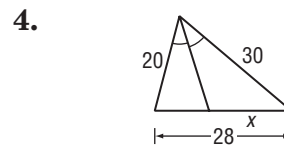
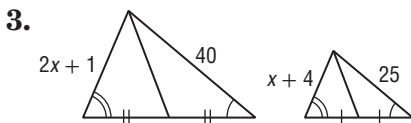
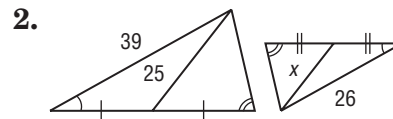
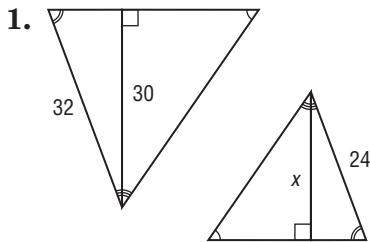


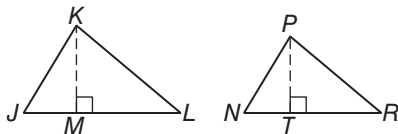
7-5 Practice

Parts of Similar Triangles

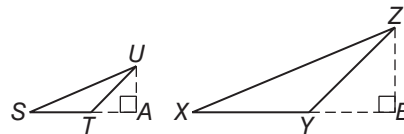
ALGEBRA Find x .



5. If $\triangle JKL \sim \triangle NPR$, \overline{KM} is an altitude of $\triangle JKL$, \overline{PT} is an altitude of $\triangle NPR$, $KL = 28$, $KM = 18$, and $PT = 15.75$, find PR .



6. If $\triangle STU \sim \triangle XYZ$, \overline{UA} is an altitude of $\triangle STU$, \overline{ZB} is an altitude of $\triangle XYZ$, $UT = 8.5$, $UA = 6$, and $ZB = 11.4$, find ZY .



7. PHOTOGRAPHY Francine has a camera in which the distance from the lens to the film is 24 millimeters.

- a. If Francine takes a full-length photograph of her friend from a distance of 3 meters and the height of her friend is 140 centimeters, what will be the height of the image on the film? (*Hint: Convert to the same unit of measure.*)
- b. Suppose the height of the image on the film of her friend is 15 millimeters. If Francine took a full-length shot, what was the distance between the camera and her friend?