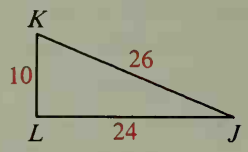
Complete. Find angle measures and lengths correct to the nearest integer. Use a calculator or the table on page 311 if needed.

19.

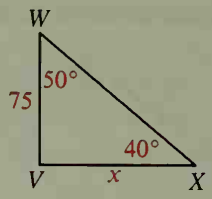


a. $\cos J =$?

b. $\sin K =$?

c. $m\angle K \approx$?

20. 8–6

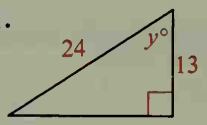


a. $WX \approx$?

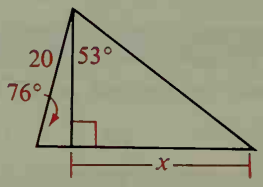
b. $VX \approx$?

Find the values of x and y correct to the nearest integer.

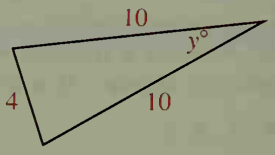
21.



22.



23.



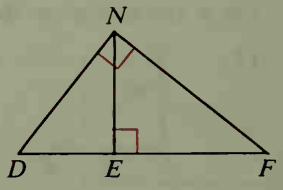
24. Lee, on the ground, looks up at Chong Ye in a hot air balloon at a 35° angle of elevation. If Lee and Chong Ye are 500 ft apart, about how far off the ground is Chong Ye? 8–7

Chapter Test

Find the geometric mean between the numbers.

1. 5 and 20 **2.** 6 and 8

In the diagram, $\angle DNF$ is a right angle and $\overline{NE} \perp \overline{DF}$.



3. $\triangle DNF \sim \triangle$?, and $\triangle DNF \sim \triangle$?.

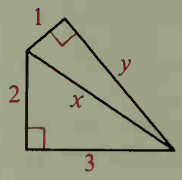
4. NE is the geometric mean between ? and ?.

5. NF is the geometric mean between ? and ?.

6. If $DE = 10$ and $EF = 15$, then $ND =$?.

Find the values of x and y.

7.



8.