

Geo

Ch 7

Sec 7.2

p. 375-376

1. LJHY

(need 3 letters)

2. LR

3. LJXY

4. HY

5. JT

6. HY

7. Not $\sim$; sides
not proportional
($\frac{2}{3}$, $\frac{9}{13}$)

8. Trapezoid QRST $\sim$ Trapezoid
XWZY; similarity
ratio = $\frac{3}{4}$

9. Rectangle KLMJ $\sim$ Rectangle PQNO
Similarity ratio = $\frac{3}{5}$

10. Rhombus ABCD $\sim$ Rhombus ^{FGHE}
Similarity Ratio = $\frac{4}{5}$

11. Not $\sim$; corresponding
L's not $\cong$

$$m\angle S = m\angle P = 80^\circ$$

$$m\angle X = m\angle Z = 85^\circ$$

12. $\triangle ABC \sim \triangle FED$

Similarity Ratio = $\frac{7}{5}$

$$13. \begin{aligned} x &= 4 \\ y &= 3 \end{aligned}$$

$$14. \begin{aligned} x &= 20, z = \frac{15}{2} \\ y &= \frac{35}{2} \end{aligned}$$

$$15. \begin{aligned} x &= 16, z = \frac{15}{2} \\ y &= \frac{9}{2} \end{aligned}$$

$$16. \begin{aligned} x &= 6 \\ y &= 8 \\ z &= 10 \end{aligned}$$

19. 70mm

20. about 87.37,

you had to use the golden
ratio of 1.618 to 1 from ~~example 3 in book~~

21. $2:3$

22. $3:2$

23. 50°

24. 50°

25. 70°

26. $\frac{2}{3}$

27. $\frac{15}{2}$

28. $\frac{28}{5}$