

ARE YOU READY? PAGE 515

1. D

2. C

3. A

4. E

$$5. \frac{PR}{RT} = \frac{10}{5} = 2; \frac{QR}{RS} = \frac{12}{6} = 2$$

$\angle PRQ \cong \angle TRS$ by Vert. $\angle$ Thm.
yes: $\triangle PRQ \sim \triangle TRS$ by SAS $\sim$

$$6. \frac{AB}{FE} = \frac{6}{4} = \frac{3}{2}; \frac{BC}{ED} = \frac{15}{10} = \frac{3}{2}$$

$\angle B \cong \angle E$ by Rt. $\angle$ Thm.
yes: $\triangle ABC \sim \triangle FED$ by SAS $\sim$

7. $x = 5\sqrt{2}$

$$8. \frac{16}{16\sqrt{2}} = \frac{x}{2x}$$

$$x = 8\sqrt{2}$$

9. $x = 4\sqrt{3}$

10. $x = 2(3) = 6$

$$11. 3(x - 1) = 12$$

$$x - 1 = 4$$

$$x = 5$$

$$12. -2(y + 5) = -1$$

$$y + 5 = 0.5$$

$$y = -4.5$$

$$13. 6 = 8(x - 3)$$

$$6 = 8x - 24$$

$$30 = 8x$$

$$x = 3.75$$

$$14. 2 = -1(z + 4)$$

$$2 = -z - 4$$

$$z = -6$$

$$15. \frac{4}{y} = \frac{6}{18}$$

$$\frac{4}{y} = \frac{1}{3}$$

$$4(3) = y(1)$$

$$y = 12$$

$$16. \frac{5}{8} = \frac{x}{32}$$

$$5(32) = 8(x)$$

$$160 = 8x$$

$$x = 20$$

$$17. \frac{m}{9} = \frac{8}{12} = \frac{2}{3}$$

$$3m = 9(2) = 18$$

$$m = 6$$

$$18. \frac{y}{4} = \frac{9}{y}$$

$$y(y) = 4(9)$$

$$y^2 = 36$$

$$y = \pm 6$$

19. $13.118 \approx 13.12$

20. $37.91 \approx 37.9$

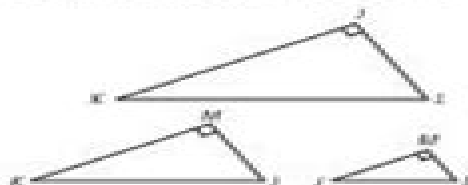
21. $15.992 \approx 16.0$

22. $173.05 \approx 173$

8-1 SIMILARITY IN RIGHT TRIANGLES, PAGES 518-523

CHECK IT OUT! PAGES 518-520

1. Sketch the 3 rt.
- $\triangle$
- with
- $\triangle$
- of
- $\triangle$
- in corr. positions.

By Thm. 8-1-1, $\triangle LJK \sim \triangle JMK \sim \triangle LMJ$.

2a. $x^2 = (2)(8) = 16$
 $x = 4$

b. $x^2 = (10)(30) = 300$
 $x = \sqrt{300} = 10\sqrt{3}$

c. $x^2 = (8)(9) = 72$
 $x = \sqrt{72} = 6\sqrt{2}$

3. $9^2 = (u)(3)$
 $81 = 3u$
 $u = 27$

$v^2 = (3)(3 + w)$

$w^2 = (u)(3 + u)$

$v^2 = (3)(30) = 90$

$w^2 = (27)(30) = 810$

$v = \sqrt{90} = 3\sqrt{10}$

$w = \sqrt{810} = 9\sqrt{10}$

4. Let
- x
- be height of cliff above eye level.

$(28)^2 = 5.5x$

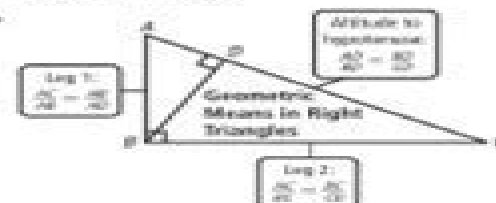
$x = 142.5$ ft

Cliff is about $142.5 + 5.5$, or 148 ft high.

THINK AND DISCUSS, PAGE 520

1. Set up the proportion
- $\frac{7}{x} = \frac{x}{21}$
- , and solve for
- x
- .
-
- $x^2 = 7(21) = 147$
-
- $x = \sqrt{147} = 7\sqrt{3}$

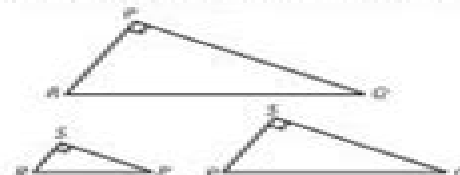
- 2.



EXERCISES, PAGES 521-523

GUIDED PRACTICE, PAGE 521

1. 8 is geometric mean of 2 and 32.
-
2. Sketch the 3 rt.
- $\triangle$
- with
- $\triangle$
- of
- $\triangle$
- in corr. positions.

By Thm. 8-1-1, $\triangle RPO \sim \triangle PSQ \sim \triangle RSP$.

Geometry Chapter Key

University of Liverpool

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the University of Liverpool text.

Geometry Chapter Key:

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0 2885 its mole percent would be 28 85

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