Solutions Key

Right Triangles and Trigonometry

ARE YOU READY? PAGE 515

1. D

2. C

3. A

4. E

5. $\dfrac{PR}{RT} = \dfrac{10}{5} = 2; \dfrac{QR}{RS} = \dfrac{12}{6} = 2$
$\angle PRQ \cong \angle TRS$ by Vert. $\triangle$ Thm.
yes; $\triangle PRQ \sim \triangle TRS$ by SAS $\sim$

6. $\dfrac{AB}{FE} = \dfrac{6}{4} = \dfrac{3}{2}; \dfrac{BC}{ED} = \dfrac{15}{10} = \dfrac{3}{2}$
$\angle B \cong \angle E$ by Rt. $\angle \cong$ Thm.
yes; $\triangle ABC \sim \triangle FED$ by SAS $\sim$

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

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

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. $\dfrac{4}{y} = \dfrac{6}{18}$
$\dfrac{4}{y} = \dfrac{1}{3}$
$4(3) = y(1)$
$y = 12$

16. $\dfrac{5}{8} = \dfrac{x}{32}$
$5(32) = 8(x)$
$160 = 8x$
$x = 20$

17. $\dfrac{m}{9} = \dfrac{8}{12} = \dfrac{2}{3}$
$3m = 9(2) = 18$
$m = 6$

18. $\dfrac{y}{4} = \dfrac{9}{y}$
$y(y) = 4(9)$
$y^2 = 36$
$y = \pm 6$

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. $9^2 = (u)(3)$
$81 = 3u$
$u = 27$
$v^2 = (3)(3 + u)$
$v^2 = (3)(30) = 90$
$v = \sqrt{90} = 3\sqrt{10}$

$w^2 = (u)(3 + u)$
$w^2 = (27)(30) = 810$
$w = \sqrt{810} = 9\sqrt{10}$

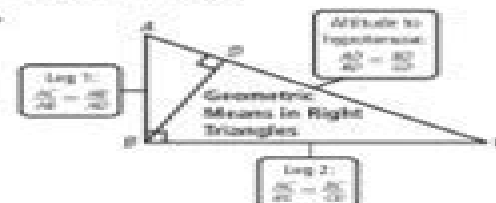4. Let x be height of cliff above eye level.
$(28)^2 = 5.5x$
$x = 142.5$ ft
Cliff is about $142.5 + 5.5$, or 148 ft high.

THINK AND DISCUSS, PAGE 520

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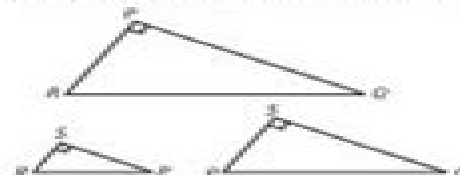$x^2 = 7(21) = 147$
$x = \sqrt{147} = 7\sqrt{3}$

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, $\triangle RPQ \sim \triangle PSQ \sim \triangle RSP$.

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