## Right Triangles and Trigonometry

#### ARE YOU READY? PAGE 515

1. D 2. G 3. A 4. E

5. PR = 10 = 2; QR = 12 = 2 ∠PRQ = ∠TRS by Verl. Δ. Thm. ver: Δ.PRQ ~ Δ.TRS by SAS ~

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.  $\angle \cong$  Thm. yes:  $\triangle ABC = \triangle FED$  by SAS =

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 = 4x = 5 12. -2(y + 5) = -1 y + 5 = 0.5y = -4.5

13. 6 = 6(x - 3) 6 = 8x - 24 30 = 8xx = 3.75 14, 2 = -1(x + 4) 2 = -x - 4x = -6

16.  $\frac{4}{y} = \frac{6}{18}$   $\frac{4}{y} = \frac{1}{3}$  4(3) = y(1)y = 12 16.  $\frac{5}{8} = \frac{x}{32}$  5(32) = 8(x) 160 = 8xx = 20

17.  $\frac{m}{9} = \frac{8}{12} = \frac{2}{3}$  3m = 9(2) = 18m = 6 18.  $\frac{y}{4} - \frac{9}{y}$  y(y) - 4(9)  $y^2 = 36$  $y = \pm 6$ 

19. 13.118 = 13.12 21. 15.992 = 16.0 20. 37.91 ~ 37.9 22. 173.05 ~ 173

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

#### CHECK IT OUT! PAGES 518-520

1. Sketch the 3 rt. & with & of & in corr. positions.



**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.  $9^2 = (\omega_0(3))$   $81 = 3\omega$   $\omega = 27$  $v^2 = (3)(3 + 2\omega)$ 

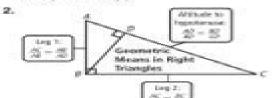
 $v^2 = (3)(3 + \omega)$   $v^2 = (3)(30) = 90$  $v = \sqrt{90} = 3\sqrt{10}$   $w^2 = (u)(3 + u)$   $w^2 = (27)(30) = 810$  $w = \sqrt{810} = 9\sqrt{10}$ 

Let x be height of cliff above eye level.
 (28)<sup>2</sup> = 5.5x
 x = 142.5 ft

 $x \approx 142.5 \text{ ft}$ Cliff is about 142.5 + 5.5, or 148 ft high.

#### THINK AND DISCUSS, PAGE 520

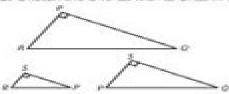
1. Set up the proportion  $\frac{7}{x} = \frac{x}{21}$ , and solve for x.  $x^2 = 7(21) = 147$   $x = \sqrt{147} = 7\sqrt{3}$ 



#### EXERCISES, PAGES 521-523 GUIDED PRACTICE PAGE 521

1. 8 is geometric mean of 2 and 32.

2. Sketch the 3 rt. & with A of A in corr. positions.



By Thim. 8-1-1, \( \Delta APQ = \Delta PSQ = \Delta ASP. \)

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Xiaolong Qi

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