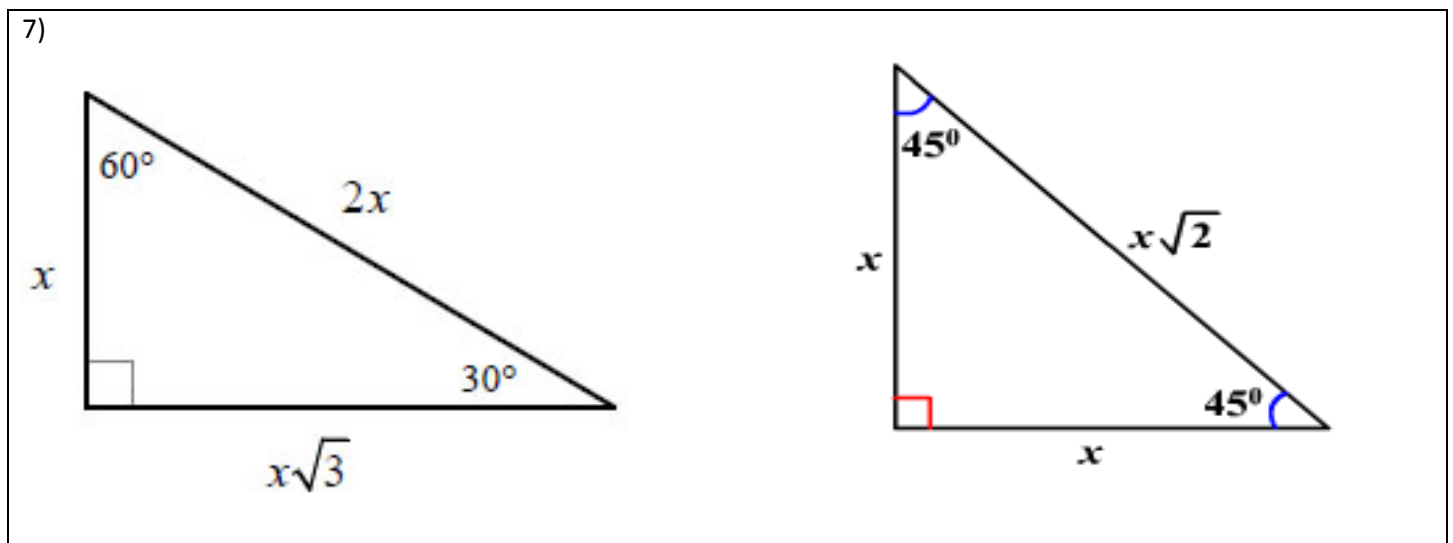


Chapter 9-10 Study Guide Answers

<p>1. <math>x = 12</math></p> <p>perimeter = 30 yards</p> <p>area = 30 yards squared</p>	<p>2. <math>x = 4\sqrt{7}</math></p> <p>perimeter = <math>(28 + 4\sqrt{7})ft</math></p> <p>area = <math>24\sqrt{7} ft^2</math></p>	<p>3. <math>x = \sqrt{65}</math></p> <p>area = <math>14 cm^2</math></p> <p>perimeter = <math>(11 + \sqrt{65})cm</math></p>	<p>4. you do not have to find the area.</p> <p>the length of the altitude is <math>2\sqrt{10}</math></p> <p>use the altitude to find the missing part of the side</p> <p>part of the missing side = <math>2\sqrt{6}</math></p>
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<p>5.</p> <p>In a 45-45-90 Triangle, how do you go from leg to hypotenuse? <b>Multiply by <math>\sqrt{2}</math></b></p> <p>From hypotenuse to leg? <b>Divide by <math>\sqrt{2}</math></b></p>	<p>6) In a 30-60-90 Triangle, how do you go from short leg to long leg? <b>Multiply by <math>\sqrt{3}</math></b></p> <p>From long leg to short leg? <b>Divide by <math>\sqrt{3}</math></b></p> <p>From short leg to hypotenuse? <b>Multiply by 2</b></p> <p>From hypotenuse to short leg? <b>Divide by 2</b></p>
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11. $x = 8\sqrt{2}$	12. $x = 11\sqrt{2}$	13. $x = 5$ $y = 10$
14. $x = 26\sqrt{2}$	15. $x = 6\sqrt{2}$	16. $x=32$
17. $y = 24\sqrt{3}$ $x=24$	18. $y=12$ $x = 6\sqrt{3}$	19. $x = \frac{14\sqrt{3}}{3}$ $y = \frac{28\sqrt{3}}{3}$
20. $\frac{4}{5}$  0.8	21.  $\frac{12}{13}$  0.92	22. SOH CAH TOA  $\text{sine} = \frac{\text{opposite}}{\text{hypotenuse}}$  $\text{cosine} = \frac{\text{adjacent}}{\text{hypotenuse}}$  $\text{tangent} = \frac{\text{opposite}}{\text{adjacent}}$
23. $x=5$	24. $x=14.8$	

1. $x= 10.$	2. $x=23.1$	3 $\theta = 63^\circ$
4. $\theta = 31^\circ$	10. AC=41.52 CB=35.21 $m\angle A = 58^\circ$	11. HJ=12.62 $m\angle H = 56^\circ$ $m\angle J = 34^\circ$
12. $m\angle Z = 62^\circ$ YZ = 2.39 XY=4.5		

31. 28.2 meters	32. 30 feet	33. $\theta = 30^\circ$
34. $\theta = 53.13^\circ$	35. 841.59 meters	