

NAME : _____

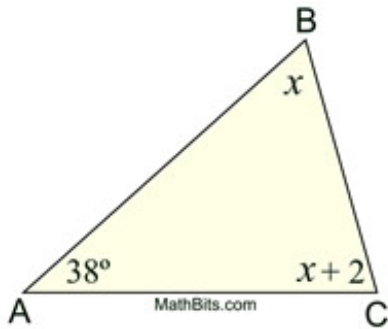
CLASS : _____

DATE : _____

Homework 2.3 Review of Module 2 *FOUR Problems Require Work*

18 Questions

1.



Solve for x AND list the sides from shortest to longest; choose the two correct answers **WORK REQUIRED**

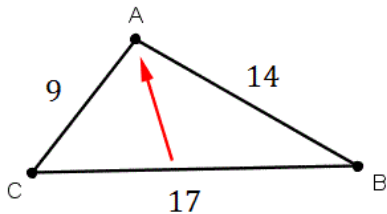
a) $x = 70$

b) $x = 72$

c) Sides: BC, AC, AB

d) Sides: BC, AB, AC

2.



List the angles from smallest to largest

a) A, B, C

b) B, A, C

c) B, C, A

d) C, A, B

3. Given three lengths, choose those sets that would form a triangle (multiple answers)

a) 7, 3, 5

b) 9, 10, 1.1

c) 2, 7, 5

d) 3.5, 7.1, 8

e) 2, 10, 12

4. Given two sides of a triangle are 8 and 11, which is the range of values the third side can be?

a) $8 < x < 11$

b) $8 < x < 19$

c) $3 < x < 11$

d) $3 < x < 19$

5. Given two sides of a triangle are 2 and 2, which is the range of values the third side can be?

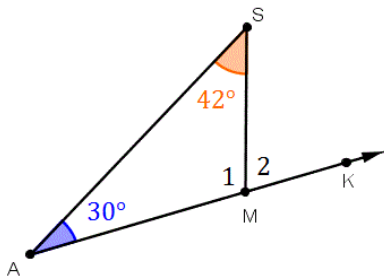
a) $2 < x < 2.1$

b) $0 < x < 4$

c) $2 < x < 4$

d) $0 < x < 2$

6.



What is the measure of Angle 1?

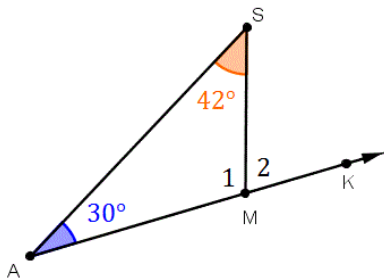
a) 72

b) 108

c) 118

d) 95

7.



What is the measure of Angle 2?

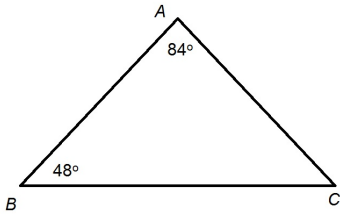
a) 72

b) 108

c) 118

d) 85

8.



Determine the measure of Angle C and then tell which sides are the legs of this isosceles triangle {choose two answers}

a) Angle C = 48

b) Angle C = 84

c) Legs are AB and AC

d) Legs are AB and BC

9. If a square has a diagonal that measures $12\sqrt{2}$, what is the length of one side?

a) 12

b) $12\sqrt{2}$

c) 6

d) $6\sqrt{2}$

10. If a square has a perimeter of 40 units, what is the length of its diagonal?

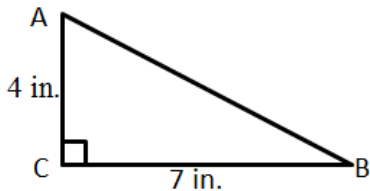
a) 10

b) 20

c) $10\sqrt{2}$

d) $20\sqrt{2}$

11.



Solve for the length of AB, rounding to the nearest tenth **WORK REQUIRED**

a) 11

b) 65

c) 5.7

d) 8.1

12.



Use the exterior angle theorem to solve for x **WORK REQUIRED**

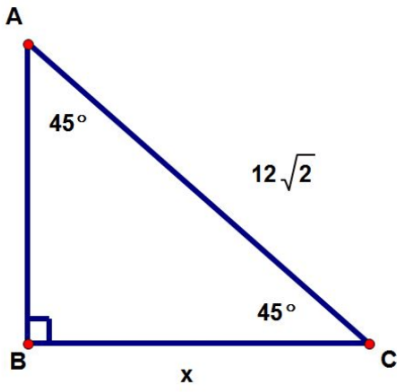
a) $x = 53$

b) $x = 7$

c) $x = 73.5$

d) $x = 49$

13.



What is the value of the length of BC (x)?

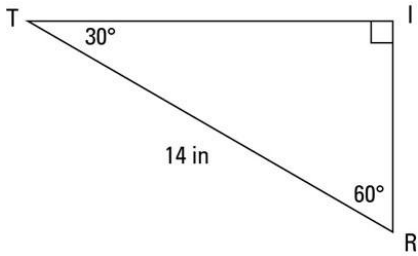
a) 12

b) 24

c) $12\sqrt{2}$

d) 6

14.



What is the length of IT?

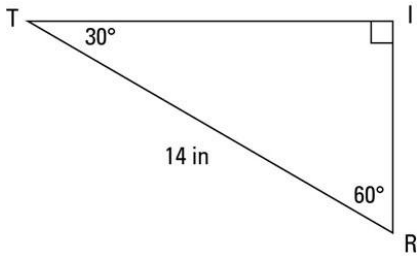
a) 14

b) 7

c) $7\sqrt{3}$

d) $7\sqrt{2}$

15.



What is the length of IR?

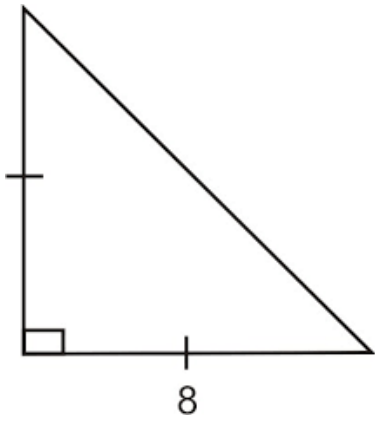
a) 14

b) 7

c) $7\sqrt{3}$

d) $7\sqrt{2}$

16.



What is the length of the hypotenuse?

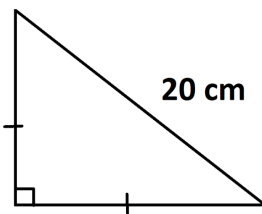
a) 8

b) $8\sqrt{2}$

c) 16

d) $8\sqrt{3}$

17.



What is the length of each leg?

a) 10

b) 20

c) $10\sqrt{3}$

d) $10\sqrt{2}$

18.



A boy is flying a kite where he has 30 feet of string extended and the kite is 18 feet high. How far from the boy's feet is the spot directly below the kite? **WORK REQUIRED**

a) 12 feet

b) 24 feet

c) 35 feet