MDC Hialeah Campus Summer 2020

Geometry Review 1

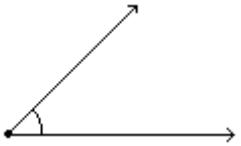
Solve the problem.

1) The hour hand of a clock moves from 12 to 1 o'clock. Through how many degrees does it move? 1) _____

A) 30° B) 36° C) 1° D) 12°

Classify the angle as acute, right, straight or obtuse.

2) 2) _____



A) straight B) right C) acute D) obtuse

3) 3) _____

A) acute B) obtuse C) right D) straight

4)  4) _____

A) right B) straight C) acute D) obtuse

Find the measure of the complement of the angle.

5) 61.5° 5) _____

A) 118.5° B) 28.5° C) 29.5° D) 90°

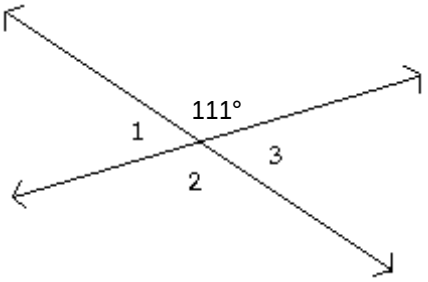
Find the measure of the supplement of the angle.

6) Find the supplement of 7°. 6) _____

A) 263° B) 173° C) 83° D) 353°

Find the measures of angles 1, 2, and 3.

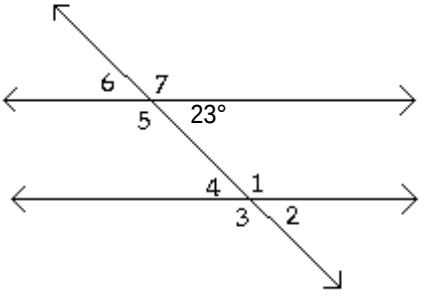
7) 7) _____



A) m∠1 = 21°, m∠2 = 111°, m∠3 = 21°
B) m∠1 = 111°, m∠2 = 69°, m∠3 = 111°
C) m∠1 = 111°, m∠2 = 21°, m∠3 = 111°
D) m∠1 = 69°, m∠2 = 111°, m∠3 = 69°

The figure shows two parallel lines intersected by a transversal. One of the angle measures is given. Find the measure of the indicated angle.

8) 8) _____

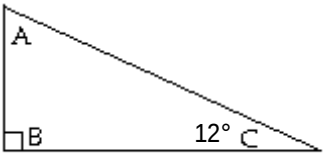


Find the measure of ∠1.

A) 167°
B) 157°
C) 113°
D) 67°

Find the measure of angle A for the triangle shown.

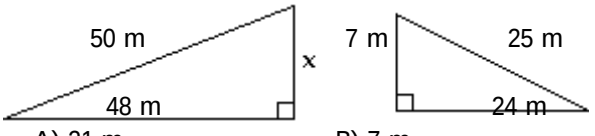
9) 9) _____



A) 88°
B) 78°
C) 90°
D) 168°

Use similar triangles and the fact that corresponding sides are proportional to find the length of the side marked with an x.

10) 10) _____



A) 21 m
B) 7 m
C) 14 m
D) 10 m

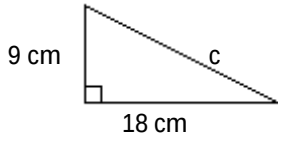
Use similar triangles to solve the problem.

11) A flagpole casts a shadow of 28 ft, Nearby, a 4-ft tree casts a shadow of 2 ft. What is the height of the flag pole? 11) _____

A) 56 ft B) 14 ft C) 224 ft D) 0.3 ft

Use the Pythagorean Theorem to find the missing length in the right triangle. Use a calculator to find square roots, rounding, if necessary, to the nearest tenth.

12) 12) _____



A) 405 cm B) 13.5 cm C) 20.1 cm D) 202.5 cm

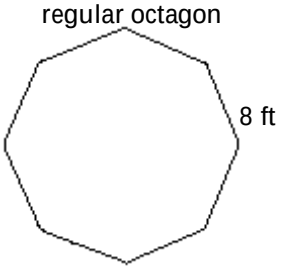
Use the Pythagorean Theorem to solve the problem. Use your calculator to find square roots, rounding, if necessary, to the nearest tenth.

13) A 37-inch-square TV is on sale at the local electronics store. If 37 inches is the measure of the diagonal of the screen, use the Pythagorean theorem to find the length of the side of the screen. 13) _____

A) 6.1 in. B) 26.2 in. C) 684.5 in. D) 3 in.

Find the perimeter of the figure named and shown. Express the perimeter in the same unit of measure that appears on the given side or sides.

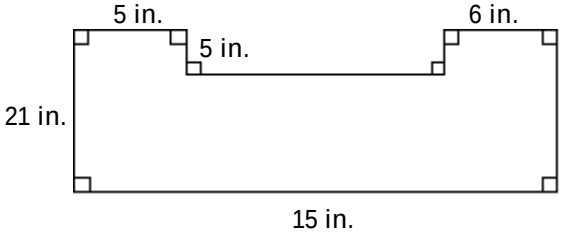
14) 14) _____



A) 64 ft B) 56 ft C) 8 ft D) 48 ft

Find the perimeter of the figure shown. Express the perimeter in the same unit of measure that appears on the given side or sides.

15) 15) _____



A) 93 in. B) 82 in. C) 61 in. D) 77 in.

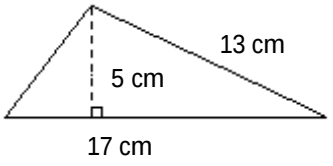
Solve the problem.

16) Find the sum of the measures of the angles of a 7-sided polygon. 16) _____

A) 900° B) 180° C) 1260° D) 720°

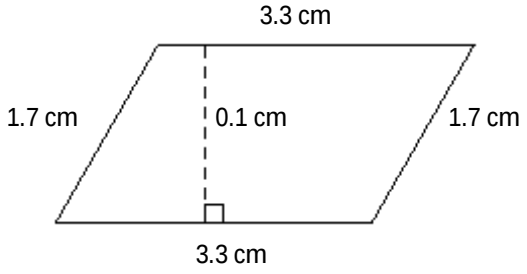
Use formulas to find the area of the figure.

17) 17) _____



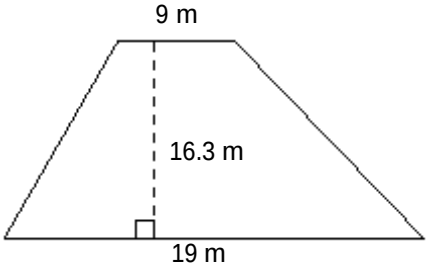
A) 110.5 cm^2 B) 32.5 cm^2 C) 85 cm^2 D) 42.5 cm^2

18) 18) _____



A) 5 cm^2 B) 3.3 cm^2 C) 0.33 cm^2 D) 5.61 cm^2

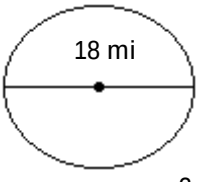
19) 19) _____



A) 228.2 m^2 B) 146.7 m^2 C) 309.7 m^2 D) 456.4 m^2

Find the circumference and area of the circle. Round the answer to the nearest whole number.

20) 20) _____



A) 57 mi, 57 mi^2 B) 28 mi, 113 mi^2 C) 57 mi, 254 mi^2 D) 28 mi, 1018 mi^2

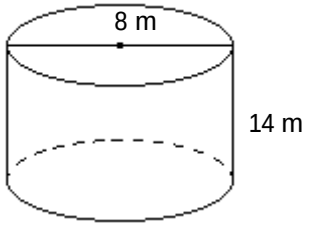
Solve the problem. Round all circumference and area calculations to the nearest whole number.

21) How much fencing is required to enclose a circular garden whose radius is 112 m? 21) _____

A) 39,408 m B) 176 m C) 352 m D) 704 m

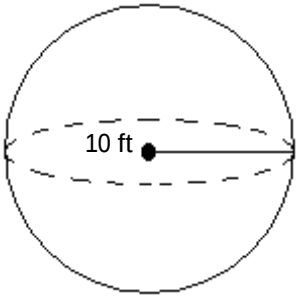
Find the volume of the figure. If necessary, round the answer to the nearest whole number.

22) 22) _____



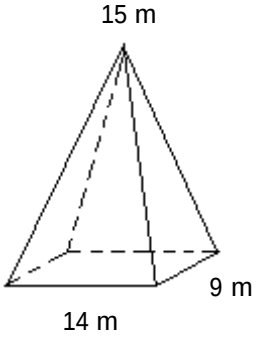
A) 704 m^3 B) 352 m^3 C) 176 m^3 D) 2815 m^3

23) 23) _____



A) 419 ft^3 B) 524 ft^3 C) 2356 ft^3 D) 4189 ft^3

24) 24) _____



A) 630 m^3 B) 79,380 m^3 C) 1890 m^3 D) 1978 m^3

Answer Key
Testname: REVIEW1

1) A
2) C
3) B
4) B
5) B
6) B
7) D
8) B
9) B
10) C
11) A
12) C
13) B
14) A
15) B
16) A
17) D
18) C
19) A
20) C
21) D
22) A
23) D
24) A