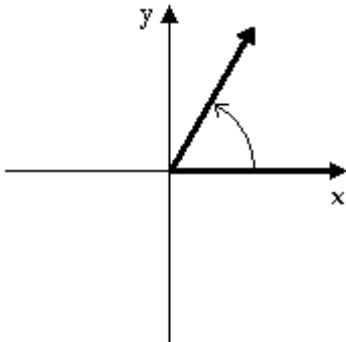


Chapter 6 TECM 119 Practice Test

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Determine the degree measure of the given angle.

1)



1) _____

- A) 60° B) 120° C) 45° D) 30°

Express the angle in degrees and minutes.

2) 97.15°

2) _____

- A) $97^\circ 9'$ B) $97^\circ 90'$ C) $97^\circ 0.15'$ D) $97^\circ 15'$

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

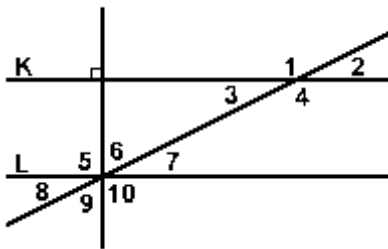
3) $40^\circ 44'$

3) _____

- A) 40.44° B) 41.73° C) 40.73° D) 40.88°

Refer to the figure identify the indicated angle or angles.

Note: **K || L**

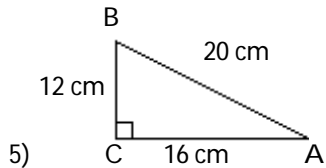


4) $\angle 6$ and $\angle 7$

4) _____

- A) Supplementary angles B) Both are right angle
C) Both are straight angles D) Complementary angles

Answer the question about the figure.



5)

5) _____

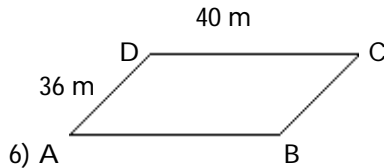
Identify and determine the lengths of the legs of the right triangle.

A) AC = 12 cm
BC = 16 cm

B) AB = 20 cm
AC = 16 cm

C) AC = 16 cm
BC = 12 cm

D) BC = 12 cm
AB = 20 cm



6) A

6) _____

In the parallelogram identify pairs of opposite angles.

A) $\angle A$ and $\angle D$, $\angle B$ and $\angle C$

B) $\angle A$ and $\angle C$, $\angle B$ and $\angle D$

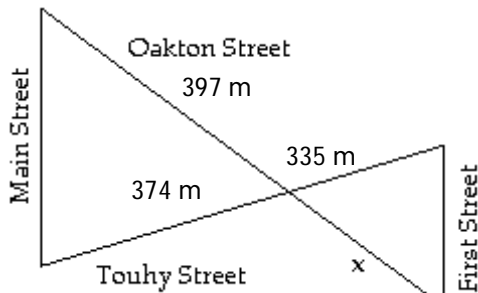
C) AB and DC, AD and BC

D) $\angle A$ and $\angle B$, $\angle D$ and $\angle C$

Solve the problem.

7) If Main Street is parallel to First Street, find the value of x.

7) _____



A) 356 m

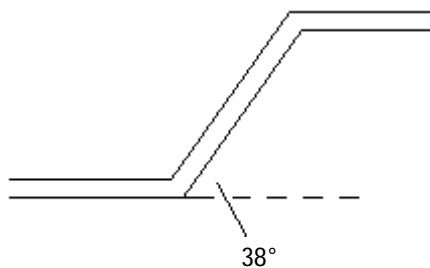
B) 443 m

C) 335 m

D) 316 m

8) A part used in manufacturing is shown in the figure. If the upper and lower sections are parallel, what is the angle between the diagonal and the upper section?

8) _____



A) 128°

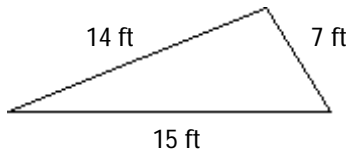
B) 52°

C) 38°

D) 142°

Find the perimeter.

9)



- A) 52.5 ft B) 36 ft C) 35 ft D) 29 ft

9) _____

Solve the problem.

10) Find the perimeter of a rectangle with length of 67.52 cm and width of 91.36 cm.

- A) 317.8 cm B) 317.76 cm C) 6168.6 cm D) 6169 cm

10) _____

11) Find the perimeter of an isosceles trapezoid with short base of 59.5 cm, long base of 69.1 cm, and height of 36.9 cm.

- A) 239.9 cm B) 202.7 cm C) 203.0 cm D) 202.4 cm

11) _____

Find the circumference of the circle with the given radius or diameter. Use 3.14 as the value of π .

12) $r = 6.9$ in.

- A) 43.33 in. B) 149.5 in. C) 43 in. D) 21.7 in.

12) _____

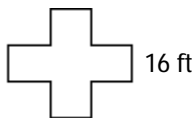
13) $d = 62.1$ mm

- A) 195 mm B) 390 mm C) 195.0 mm D) 390.0 mm

13) _____

Find the perimeter. Use 3.14 for π .

14)

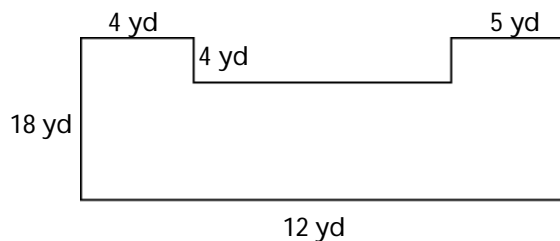


All segments are of equal length.

- A) 1280 ft B) 96 ft C) 192 ft D) 160 ft

14) _____

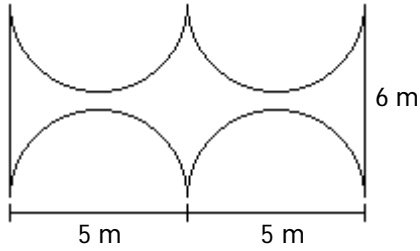
15)



- A) 64 yd B) 204 yd C) 76 yd D) 68 yd

15) _____

16)

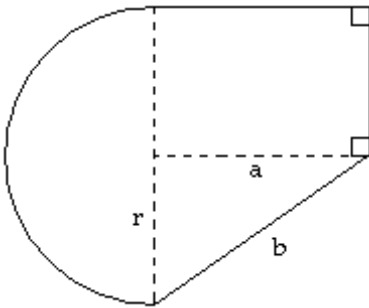


- A) 43.4 m B) 21.7 m C) 27.7 m D) 37.4 m

16) _____

Find the formula for the perimeter of the given figure.

17)



- A) $2a + b + \pi r$ B) $a + b + r + \pi r$ C) $a + b + 2r$ D) $a + b + r + 2\pi r$

17) _____

Solve the problem.

18) The perimeter of a rectangular room is 44 ft. The width is 8 ft. Find the length.

- A) 14 ft B) 36 ft C) 13 ft D) 15 ft

18) _____

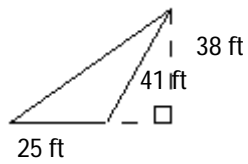
19) Find the area of a trapezoid with short base of 17 ft, long base of 85 ft, and height of 36 ft.

- A) 1500 ft^2 B) 720 ft^2 C) 3700 ft^2 D) 1800 ft^2

19) _____

Find the area.

20)



- A) 720 ft^2 B) 480 ft^2 C) 779 ft^2 D) 950 ft^2

20) _____

Find the area of the circle.

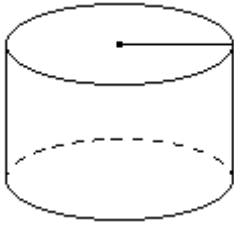
21) A circle with diameter 18 in.

- A) 250 in.^2 B) 1000 in.^2 C) 57 in.^2 D) 110 in.^2

21) _____

Find the volume.

22)



Radius = 4.5 cm, height = 15 cm

A) 3800 cm^3

B) 210 cm^3

C) 420 cm^3

D) 950 cm^3

22) _____

23) A cone with height 3.5 cm and diameter 4.7 cm

A) 34 cm^3

B) 120 cm^3

C) 20 cm^3

D) 81 cm^3

23) _____

24) A triangular pyramid with base area 17.6 ft^2 and height 9.0 ft

A) 79 ft^3

B) 53 ft^3

C) 51 ft^3

D) 160 ft^3

24) _____

Solve the problem.

25) A dog toy is constructed in the shape of a cylinder with a length of 5.5 in. The cylinder has a hemisphere at each end. The diameter is 1.8 in. Find the total volume.

A) 16 in.^3

B) 17 in.^3

C) 80 in.^3

D) 14 in.^3

25) _____

Chapter 6 TECM 119 Practice Test

Answer Key

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