

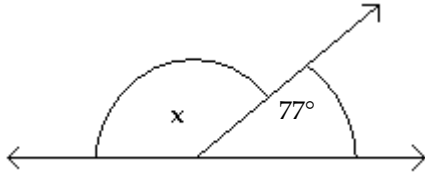
Tests from past semesters are provided as a study preparation tool. As tests are created by different instructors, problems on current tests may differ. Sample tests are a good beginning point in your test preparation, but it is recommended that you don't use sample tests as your only study resource.

Name _____

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

Find the measure of the indicated angle. Figure is not drawn to scale.

1)



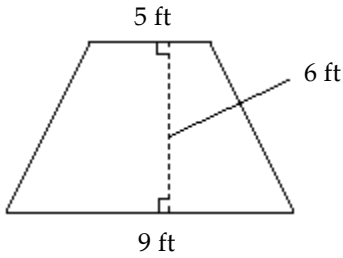
1) _____

Find the measure of $\angle x$.

- A) 23° B) 103° C) 13° D) 167°

Find the area of the geometric figure.

2) Trapezoid

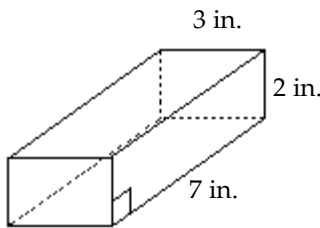


2) _____

- A) 270 sq ft B) 135 sq ft C) 84 sq ft D) 42 sq ft

Find the volume of the solid. Use $\frac{22}{7}$ for π .

3)



3) _____

- A) 126 cu in. B) 12 cu in. C) 6 cu in. D) 42 cu in.

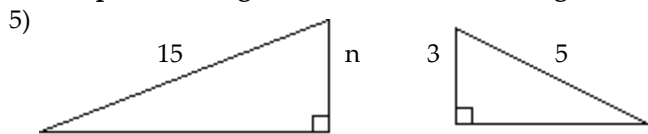
Find the square root.

4) $\sqrt{\frac{4}{121}}$

4) _____

- A) $\frac{2}{11}$ B) $\frac{1}{30}$ C) $\frac{1}{6}$ D) $\frac{3}{11}$

Given that the pair of triangles is similar, find the length of the side labeled n.



5) _____

A) 5

B) 3

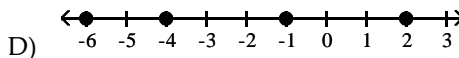
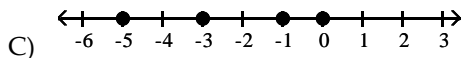
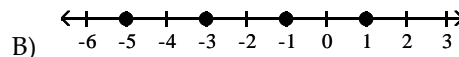
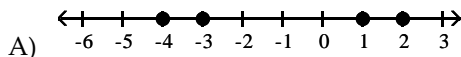
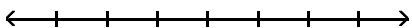
C) 9

D) 12

Graph the signed numbers in the list on a number line.

6) -5, -3, -1, 1

6) _____



Add.

7) $5 + (-15) + (-14)$

7) _____

A) 34

B) -24

C) 4

D) 6

Find the absolute value.

8) $|-21|$

8) _____

A) 21

B) 0

C) -21

D) 42

Solve.

9) A mountain in the Great Smoky Mountains National Park has an elevation of 5128 feet above sea level. A gap in the Atlantic Ocean has an elevation of 24,456 feet below sea level. Represent the difference in elevation between these two points.

9) _____

A) 19,328 ft

B) 34,712 ft

C) 14,200 ft

D) 29,584 ft

Divide.

10) $-126 \div (-7)$

10) _____

A) -18

B) 8

C) $\frac{1}{18}$

D) 18

Evaluate the expression for the given replacement values.

11) $x - y + z$ for $x = 22, y = 9, z = 5$

11) _____

A) 18

B) 36

C) 8

D) 19

Solve.

12) $x + 4 = -30 + 15$

12) _____

A) 19

B) -19

C) 49

D) -49

Solve. First combine any like terms on each side of the equation.

13) $-2x - 6x = 32$

13) _____

A) 8

B) 4

C) -4

D) -8

Solve the equation.

14) $10n - 7 = 83$

14) _____

A) 80

B) 15

C) 84

D) 9

Solve.

15) The difference of four times a number and six times the same number is 14.

15) _____

A) -7

B) 7

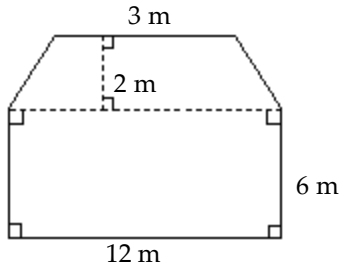
C) 14

D) -14

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Find the area of the geometric figure.

16)

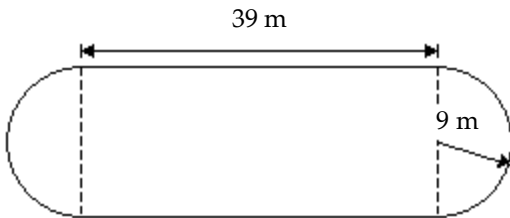


16) _____

Solve.

17) Find the perimeter. Approximate the result to the nearest tenth using 3.14 for π .

17) _____



Simplify.

18) $\frac{20(-1) - (-6)(-7)}{2[-12 \div (-3 - 3)]}$

18) _____

Solve.

19) Drew has \$137 in his checking account. He writes a check for \$69, withdraws \$20 from an ATM, and then deposits \$30. Represent the new balance in his account by an integer. 19) _____

20) In real estate, a house's selling price P is found by adding the real estate agent's commission C to the amount A that the seller of the house receives: $P = A + C$. Jorie's house sold for \$170,000. Her real estate agent received a commission of \$11,900. How much did Jorie receive? 20) _____

Answer Key

Testname: MATH 70 TEST 4

- 1) B
- 2) D
- 3) D
- 4) A
- 5) C
- 6) B
- 7) B
- 8) A
- 9) D
- 10) D
- 11) A
- 12) B
- 13) C
- 14) D
- 15) A
- 16) 87 sq m
- 17) 134.5 m
- 18) -15.5
- 19) \$78
- 20) \$158,100