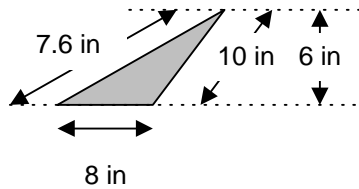
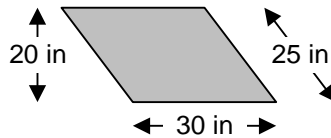


## math 001 online practice final

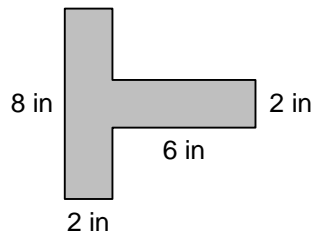
1. Find the perimeter and area of the triangle:



2. Find the perimeter and area of the parallelogram:



3. Find the perimeter and area of the figure below.



4. Evaluate and reduce to lowest terms:

a)  $\frac{2}{5} + \frac{3}{4}$       b)  $12 - 2\frac{7}{9}$       c)  $8 \cdot \frac{5}{8}$       d)  $\frac{9}{10} \cdot \frac{5}{12}$

5. Evaluate:      a)  $7 + (-3)$       b)  $-4 - (-2)$       c)  $(-7)(-9)$       d)  $(-8)^2$

6. Simplify:

a)  $-(6x - 7y - 5z)$   
b)  $5(3x + 2y) - 7(4x - 5y)$

7. Evaluate for  $x = 2$ ,  $y = -3$ , and  $z = -4$ :

a)  $-(6x - 7y - 5z)$   
b)  $5(3x + 2y) - 7(4x - 5y)$

8. Determine if the given value is a solution to the equation.

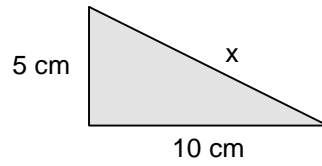
a)  $p + 0.23 = -2.77$ ,  $p = -3$   
b)  $6 - 2(4x + 9) = 54$ ,  $x = -9$

9. Solve:  $4x + 7 = 39$

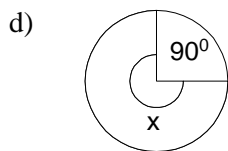
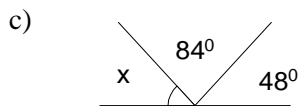
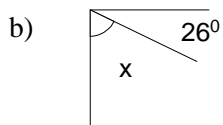
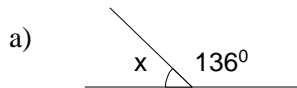
10. Solve:  $7x + 3(2x - 4) = 18$
11. Solve:  $2(5x - 7) - 3x - 11 = 13 - 5x$
12. Valerie bought a video priced at \$15.75 and 5 blank cassette tapes. If the total cost was \$24.95, what was the cost of a blank tape?
13. A rental car costs \$45.80 a day plus 20¢ per mile. Lisa hired a car for one day and was billed \$113.60. How many miles did she drive?
14. Reduce the ratios to lowest terms:      a)  $\frac{4}{7} : \frac{4}{5}$       b) 3 pints : 2 quarts
15. The Security Pacific Plaza in Los Angeles is 743 ft or 226 m high. Express the height of the Bank of America building in San Francisco in feet if it is 237 m tall.
16. Two out of every 15 parts produced by a machine contain defects. If the machine produces 22,890 parts in a week, how many will be defective?
17. Ninety six out of a sample of one hundred and ten cat owners thought their cat preferred fresh fish to a tested brand of cat food. What percent is this?
18. In one month, a salesperson earns \$723 commission on sales totaling \$9,639. What is the percent commission?
19. A 2,000 ft<sup>2</sup> house was built on a square lot of length 80 ft. The remaining area was landscaped. Find the percent of the land that was landscaped.
20. Beef from a wholesaler costs \$1.50 per pound and retails at \$2.18. What is the percent markup?
21. The population of Texas increased by 10.2% between 1990 and 1995. If the population in 1995 was 18,723,991, and it continues to increase at the same rate, what will the population be in the year 2000?
22. The price of a dress is €105.99 including 16% sales tax. What would the dress cost without tax?
23. After a 35% price reduction, a suit is on sale for \$350. What was the original price?
24. Simplify:      a)  $x^3 \cdot x^2$       b)  $(p^7)^5$
25. Simplify:  $\frac{x^5 \cdot (x^3)^5}{(x^3)^2}$
26. Approximate  $\sqrt{56}$  using a calculator. Round your result so that it is correct to the nearest thousandth.

27. Simplify  $\sqrt{90}$  by identifying a factor which is a perfect squares.

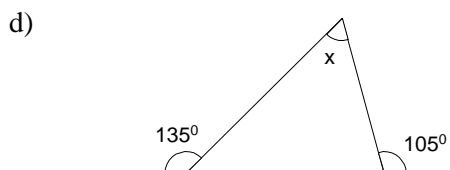
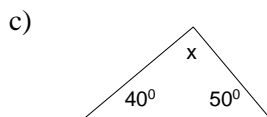
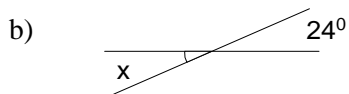
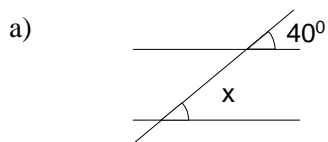
28. Find the missing length:



29. Find the measure of angle  $x$ .

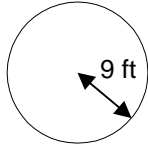


30. Find the measure of angle  $x$ .



31. Find the circumference and area of the following circles.

a)



b) A circle with diameter 7 in.

32. a) How many  $\text{in}^2$  are in  $1 \text{ ft}^2$ ?

b) A square floor with length 5 yd is to be covered with square floor tiles of length 1 foot. How many floor tiles are required?