
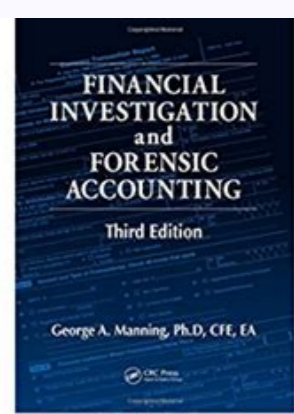


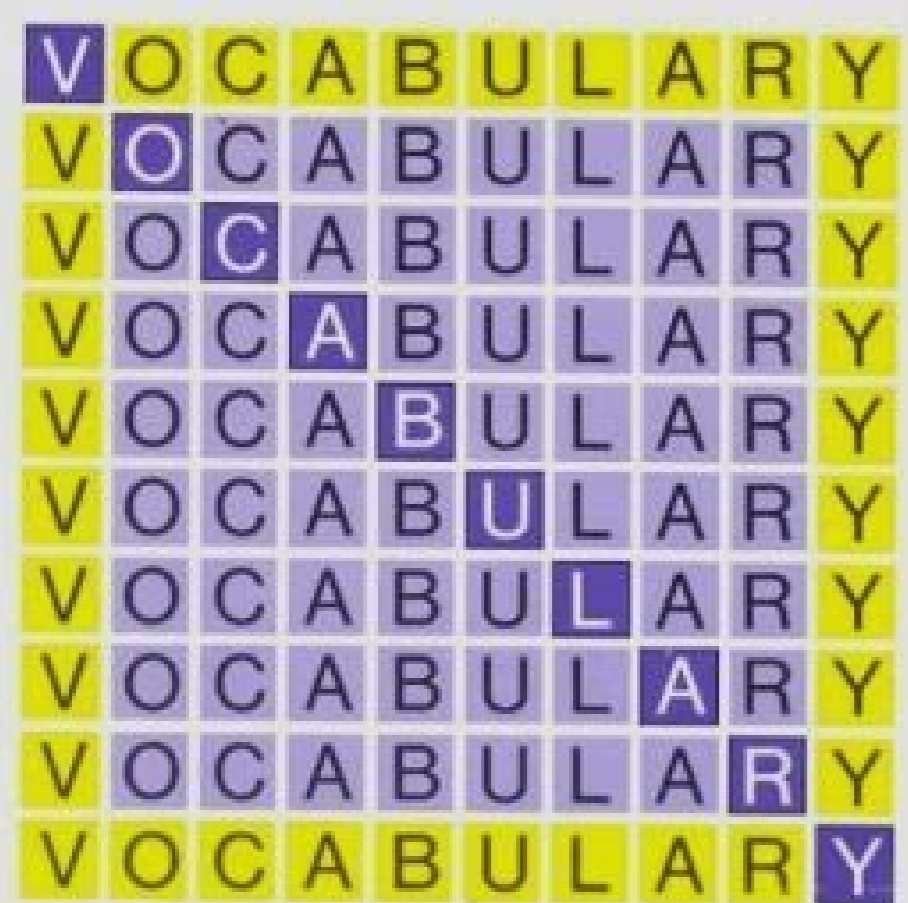
I'm not robot  reCAPTCHA

**SUBMIT**

72644108864 29837356648 26240449.098039 132827287294 62315595135 7242387.4035088 14257615790 130983251.22222 15697420.585859 15556394.033333 14289104050 133515602857 6881929.2592593 15534618.8 59209701327 23997967539



★★★★★ 12



for the High School Student  
HAROLD LEVINE

# A Course in Electrical Technology

(Electrical Machines)

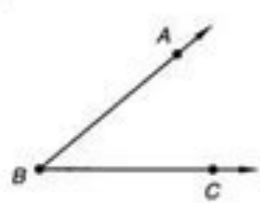
Vol. II

J. B. Gupta



Test 1      SHOW YOUR WORK      Name: \_\_\_\_\_

- Three times the complement of angle  $A$  is  $60^\circ$  less than the supplement of angle  $A$ . Find the measure of angle  $A$ .
- The ratio of students to teachers in the school was 8 to 5. If there were 1400 students, how many teachers were there?
- In a taste test, 72% of the people polled preferred cereal B. If a total of 936 people polled preferred cereal B, how many people were polled?
- Construct an angle which is congruent to  $\angle ABC$ , then bisect it.
- Construct a perpendicular to  $\overline{DE}$  at  $F$ .



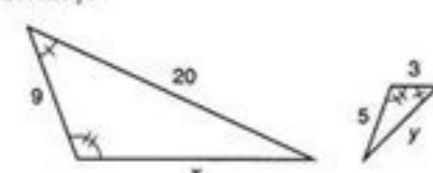
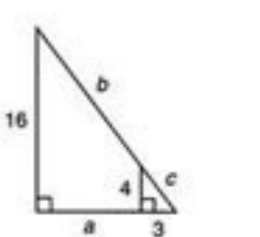
- Construct a triangle whose sides have lengths  $a$ ,  $b$ , and  $c$ .



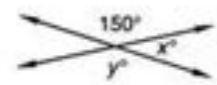
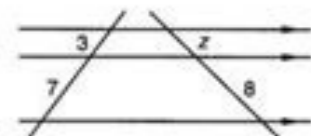
- Solve:  $\begin{cases} 2x + 6y = -36 \\ x - 3y = 0 \end{cases}$
- Solve:  $6(x + x^0 - 1) = 2(-x + 8)$

- Add:  $\frac{5}{x(x+1)} + \frac{4}{x+1} + \frac{3}{x}$
- Expand:  $\frac{4p^3y^5}{p^{-3}y} \left( \frac{2^{-1}p^{-2}z}{p^3} + \frac{p^2z^3}{x^{-3}} \right)$

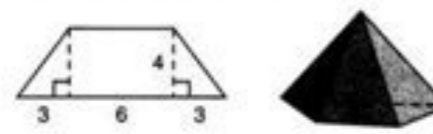
- The lengths of the sides of a triangle are 8 m, 6 m, and 5 m. Is the triangle a right triangle, an acute triangle, or an obtuse triangle?
- Find  $a$ ,  $b$ , and  $c$ .
- Find  $x$  and  $y$ .



- Find  $z$ .
- Find  $x$  and  $y$ .



- An equilateral triangle has a perimeter of 24 cm and an area of  $16\sqrt{3}$  cm<sup>2</sup>. Find the altitude of the triangle.
- A sphere has a radius of 5 feet. Find the volume and surface area of the sphere.
- In the circle,  $O$  is the center. The radius of the circle is  $\sqrt{8}$  meters. Find the area of the shaded sectors.
- Find the volume of the cone whose base is shown and whose altitude is 8 cm. Dimensions are in centimeters.



- Evaluate:  $x^3 - 3y^3 + 2(x - y)(x^2 + 3xy + y^2)^3$  if  $x = 3$  and  $y = 2$

