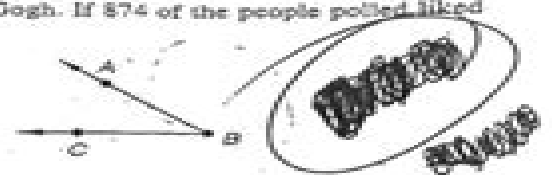


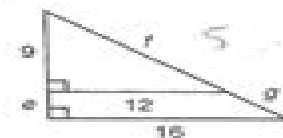
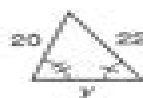
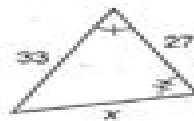
- Three times the complement of angle A is 50° more than the supplement of angle A . Find the measure of angle A .
- The ratio of corporations to endangered species was 8 to 5. If there were 1500 endangered species, how many corporations were there?
- In a preference test, 38% of the people polled liked the art of Vincent van Gogh. If 874 of the people polled liked Vincent van Gogh's art, how many people were polled?
- Construct an angle which is congruent to $\angle ABC$, then bisect it.



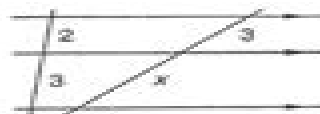
- Construct a perpendicular to \overline{DE} at F .
- Construct a triangle with side lengths a , b , and c .



- Solve: $\begin{cases} 2x + 5y = 24 \\ 2x - y = 0 \end{cases}$
- Solve: $4(x + x^0 + 2) = 3(3x - 1)$
- Add: $\frac{3}{x+1} - \frac{2}{x} + \frac{1}{x(x+1)}$
- Simplify: $\frac{3^{-1}x^{-3}y^2}{2^3(xy)^{-1}}$
- The lengths of the sides of a triangle are 7 cm, 6 cm, and 6 cm. Is this triangle a right triangle, an acute triangle, or an obtuse triangle?
- Find x and y .
- Find e , f , and g .



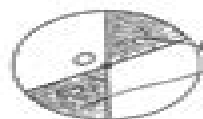
- Find x .



- Find x and y .



- An equilateral triangle has a perimeter of 6 km and an area of $\sqrt{3}$ km². Find the altitude of the triangle.
- A sphere has a radius of 2 miles. Find the volume and surface area of the sphere.
- In the circle shown, O is the center. The radius of the circle is $\sqrt{3}$ cm. Find the area of the shaded sectors.
- Find the volume of the cone whose base is shown and whose altitude is 9 m. Dimensions are in meters.



- Evaluate: $x^3 - 2y^2 + 2(y - x)(6x^2 + 3xy^4 + x^2)^0$ if $x = 3$ and $y = 4$

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