

Section 2.5 Application Problems

Solve for a variable when given others.

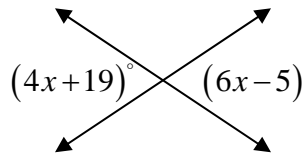
1. $A = LW$ if $A = 64$ & $L = 10$ find W .
2. $A = \frac{1}{2}h(b+B)$ if $A = 210$, $B = 27$, $h = 10$ find b .

Using a Formula

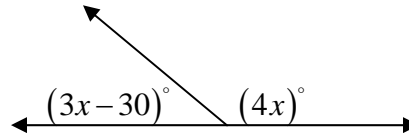
3. A farmer has 800 m of fencing material to enclose a rectangular field. The width of the field is 50m less than the length. Find the dimensions of the field.
4. The longest side of a triangle is 1 in. longer than the medium side. The medium side is 5 in. longer than the shortest side. If the perimeter is 32 in., what are the lengths of the three sides?
5. The area of a triangle is $120m^2$. The height is 24 m. Find the length of the base of the triangle.

Vertical Angles and Straight Angles

6. Find the measure of each marked angle.



7. Find the measure of each marked angle.



Answers:

1. $W = 6.4$
2. $b = 15$
3. 175m x 225m
4. 7in. x 12in. x 13in.
5. 10m
6. $x = 12$, angle = 67°
7. $x = 30$