

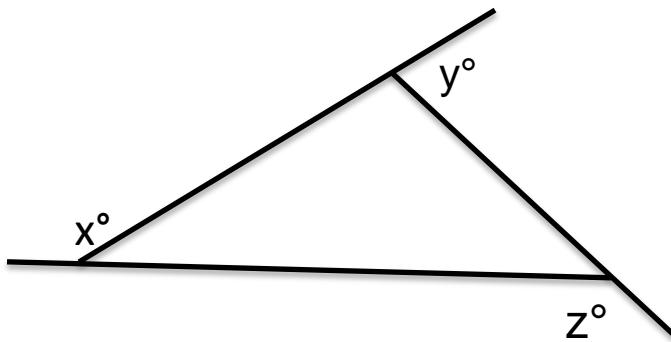
1. If $4x+y = 7$ and $x-3y = 2$ find the value of $9x-y$

$$(4x+y) \cdot 2 + (x-3y) = 7 \cdot 2 + 2$$

$$8x+2y+x-3y = 16$$

$$9x-y = 16$$

2. What is the value of $x + y + z$? (show your work)



$$x + y + z = 360^\circ$$

3. The length of a certain rectangle is twice the width. If the area of the rectangle is 128, how long is the diagonal of the rectangle? (use algebra)

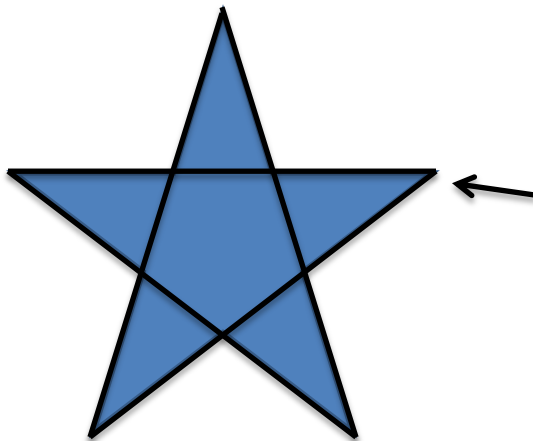
Assume the width is x .

$$x \cdot 2x = 128$$

$$x = 8$$

the diagonal is $8\sqrt{5}$.

- 4.



What is the measure of the interior angles of this equilateral pentagram?
(Tell me why)

180°