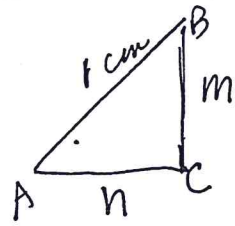
TIC TAC TOE Review – Chapter 10

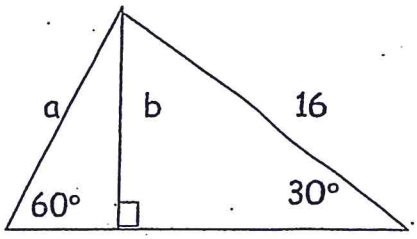
An advertising blimp hovers at an altitude of 125 m over a baseball field where Gage is playing. Heather, the pilot, sights a tennis court at an 8° angle of depression from the blimp, where Kate is playing in a match. Find the distance between the baseball field & tennis court to the nearest meter.

~~Simplify~~ $\sqrt{5000}$



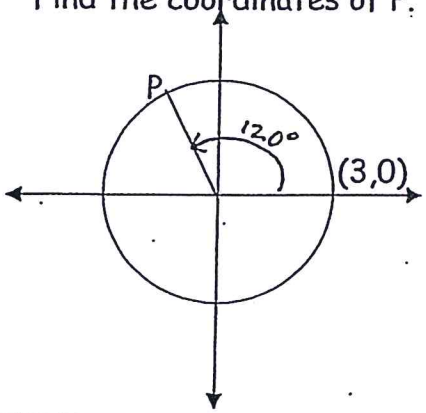
Find:
sine A
cosine B
tan A
tan B

Find a and b.

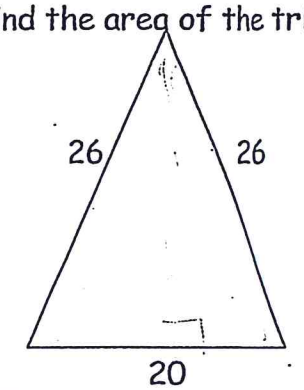


Name 3 Pythagorean triples.
~~Classify as primitives or multiples.~~
2 of them should be similar triangles.

Find the coordinates of P.



Find the area of the triangle.



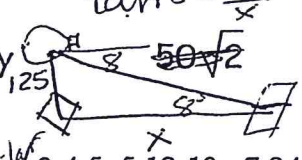
~~Write the equation of the circle with center (-6,-2) and (6,3) a point on the circle.~~

Arbortown is at (1,4) on a grid and Bloomville is at (13,8). A train line will connect them. What is the length of the train line? A mail drop will occur halfway between the two towns. Where will the mail drop be located on the grid?

Find the diagonal length of a 5 inch cube. Explain or show how you figured this out.

$\tan 8° = \frac{125}{x}$ $\frac{125}{\tan 8} \approx 889$ m

Key



~~$50\sqrt{2}$~~

$\sin A = m$
$\cos B = m$
$\tan A = m/n$
$\tan B = n/m$

$a = 16/3\sqrt{3}$ $b = 8$

Similar {3,4,5, 5,12,13 7,24,25
6,8,10

8,15,17 + multiples of these

$(-\frac{3}{2}, \frac{3\sqrt{3}}{2})$

$A = .5 \times 20 \times 24 = 240\ cm^2$

$169 = (x + 6)^2 + (x + 2)^2$

~~10.66~~ 12.65 miles
~~13.42~~ miles (7,6)

$5\sqrt{3}$