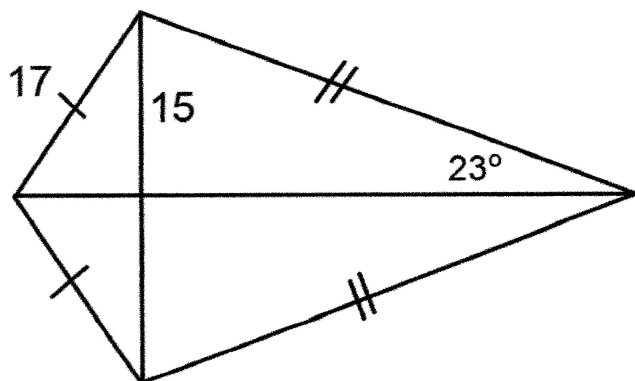
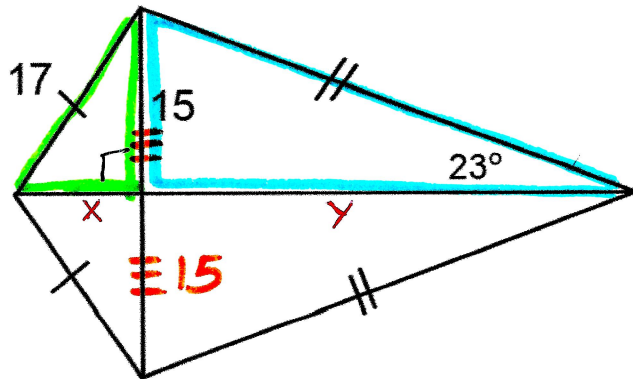


Find the area of this Kite to the nearest hundredth.



Area =

Answer



Area =

$$A = \frac{1}{2} d_1 \cdot d_2$$

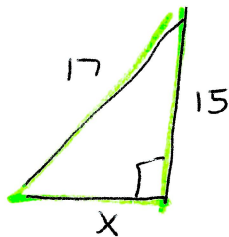
$$= \frac{1}{2} (30)(43.34)$$

$$A = 650.10$$

VERTICAL DIAGONAL
= $2(15) = 30$

Horizontal Diagonal = $x + y$
= $8 + 35.34 = 43.34$

For x



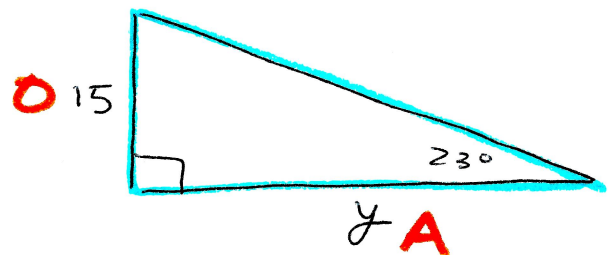
use pythagorean thm:

$$17^2 = x^2 + 15^2$$

$$\sqrt{x^2} = \sqrt{17^2 - 15^2}$$

$$x = 8$$

For y



use SOHCAHTOA

$$\tan 23^\circ = \frac{15}{y}$$

$$y = 35.34$$