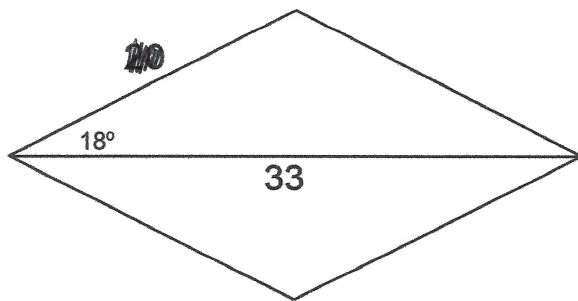


1. These three numbers are sides of a triangle. Is this a right $\triangle$, an acute $\triangle$, or an obtuse $\triangle$?

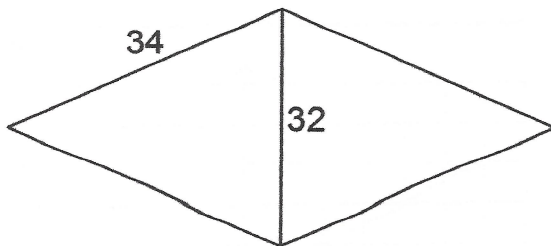
18, 23, 29

2. Find the area of each Rhombus. Round to the nearest hundredth.

a)



b)



1. These three numbers are sides of a triangle. Is this a right Δ , an acute Δ , or an obtuse Δ ?

18, 23, 29

$a \neq b \rightarrow c$

$$c^2 = 29^2 = 841$$

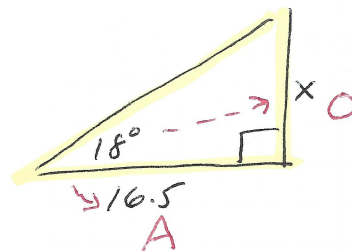
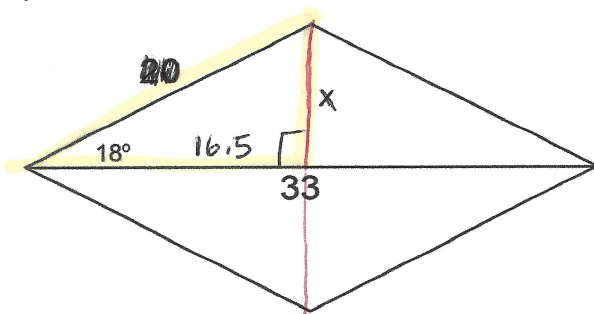
$$a^2 + b^2 = 18^2 + 23^2 = 853$$

$$c^2 < a^2 + b^2$$

Therefore, the Δ is Acute

2. Find the area of each Rhombus. Round to the nearest hundredth.

a)



SOHCAHTOA

$$\tan 18^\circ = \frac{x}{16.5}$$

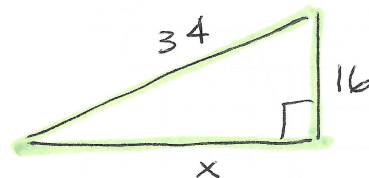
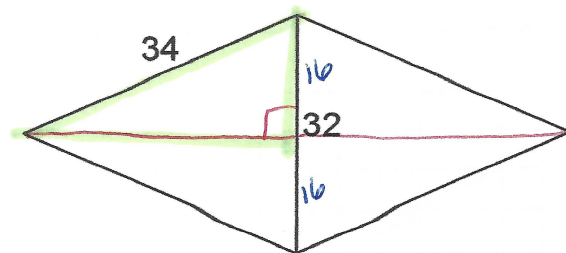
$$x = 5.36$$

$$\text{HORIZ DIAG} = 33$$

$$\text{VERT DIAG} = 2x = 2(5.36) = 10.72$$

$$A = \frac{1}{2}(33)(10.72) = 176.88$$

b)



$$x^2 + 16^2 = 34^2$$

$$x^2 = 34^2 - 16^2$$

$$x^2 = \sqrt{34^2 - 16^2}$$

$$x = 30$$

$$\text{VERTICAL DIAG} = 32$$

$$\text{HORIZONTAL DIAG} = 2x = 2(30) = 60$$

$$A = \frac{1}{2}(32)(60)$$

$$A = 960$$