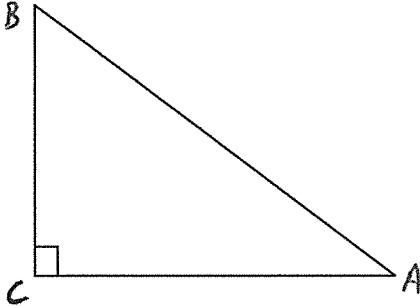


Unit 5: Right Triangles and Trigonometry

PRE-TEST

Evaluate the six trigonometric functions for the regular right triangle for $\angle A$.

1. $a = 8$, $b = 15$, and $c = 17$.



For the following problem there will be 3 parts:

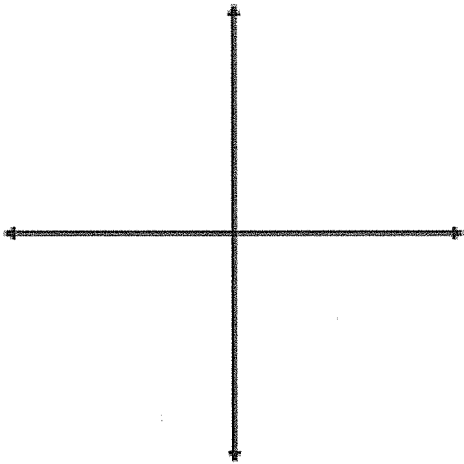
A. Draw the angle in standard form.

B. Find one (1) positive and one (1) negative coterminal angle of the given angle.

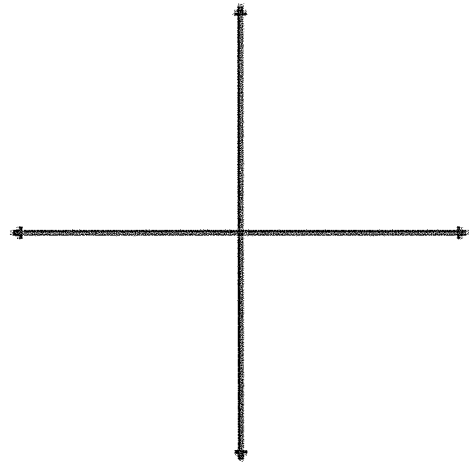
C. Find the reference angle of the given angle.

2A. 500°

3A. $-\frac{7\pi}{6}$



2B.



3B.

2C.

3C.

Using the hand trick discussed in class, give the exact value of each of the following trig functions:

4. $\sin(210)^\circ$

5. $\csc\left(-\frac{8\pi}{3}\right)$

6. $\cos(-240)^\circ$

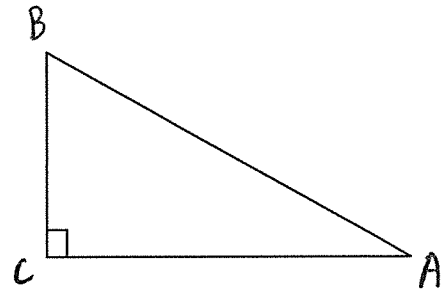
7. $\sec\left(\frac{7\pi}{4}\right)$

8. $\tan(-225)^\circ$

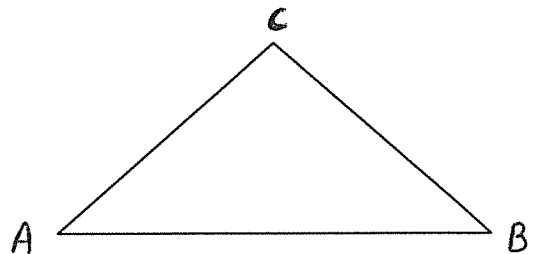
9. $\cot\left(-\frac{13\pi}{6}\right)$

Solve the following triangle given the information provided:

10. $\angle A = 35^\circ$ and $c = 16$



11. $\angle A = 49^\circ$, $\angle B = 32^\circ$, and $b = 44$



12. $a = 11$, $c = 14$, and $\angle B = 34^\circ$

