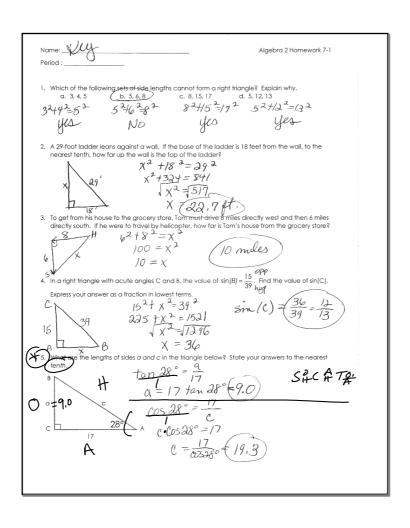
# **Homework 7-1**

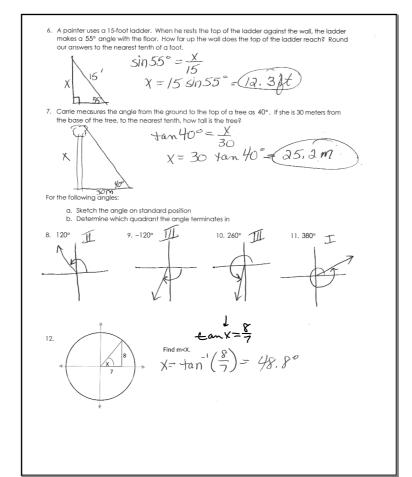
- 1. B because Pyth. Thm. doesn't work
- 2. 22.7 ft
- 3. 10 miles
- 4. 12/13
- 5. a = 9.0, c = 19.3
- 6. 12.3 ft
- 7. 25.2 m
- 8. see next slide
- 9. 48.8°

Aug 13-1:18 PM



## Day 2 - per8-9CoTerminals Quadrantals and Unit Circle.notebook

#### **December 13, 2019**

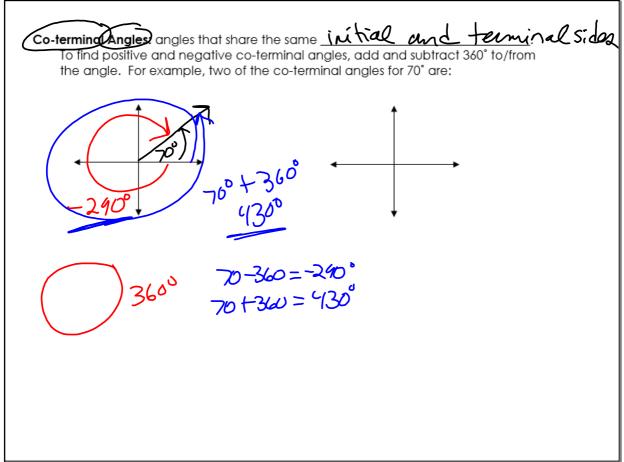


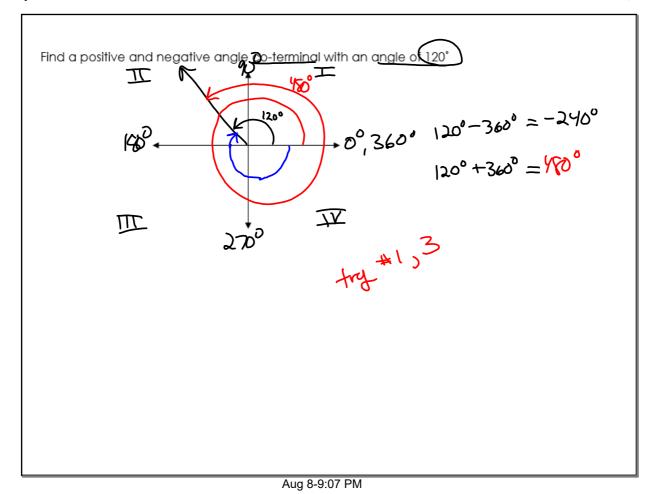
### Day 2 - Co-Terminal Angles, Quadrantals and the Unit Circle

Co-terminal Angles: angles that share the same \_\_\_\_\_\_.

To find positive and negative co-terminal angles, add and subtract 360° to/from the angle. For example, two of the co-terminal angles for 70° are:

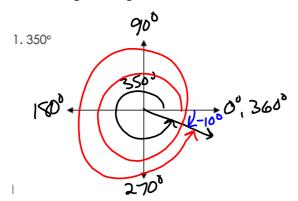
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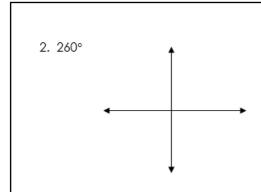


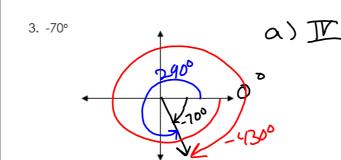


You try:

- a. Determine the quadrant in which the angle lies.
- b. Find the measures of a positive and negative angle that are coterminal with the given angle.

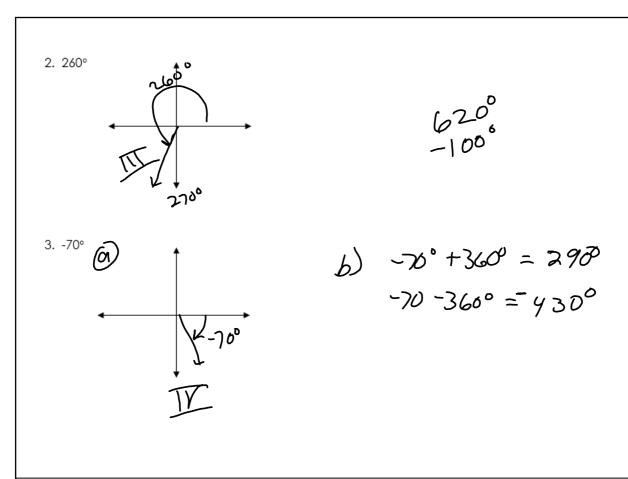






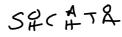
a) IV b) 
$$-70 - 360 = -430^{\circ}$$
  
 $-70 + 360 = 290^{\circ}$ 

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4. The terminal side of  $\angle \theta$  passes through the point (4, 3). What are the sine, cosine and tangent of  $\angle \theta$ ? Also, find m $\angle \theta$ .

\* **Hint**. Draw the angle in standard position first.



$$34-5$$
 $3^{2}+4^{2}=0^{2}$ 
 $0^{2}=25$ 
 $0^{2}=5$ 

$$\sin(\theta) = \frac{0}{4} = \frac{3}{5}$$

$$\cos(\theta) = \frac{4}{11} = \frac{3}{5}$$

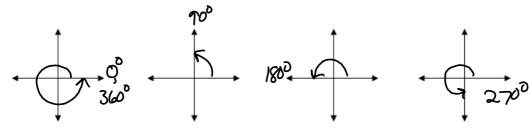
$$\tan(\theta) = \frac{0}{4} = \frac{3}{4}$$

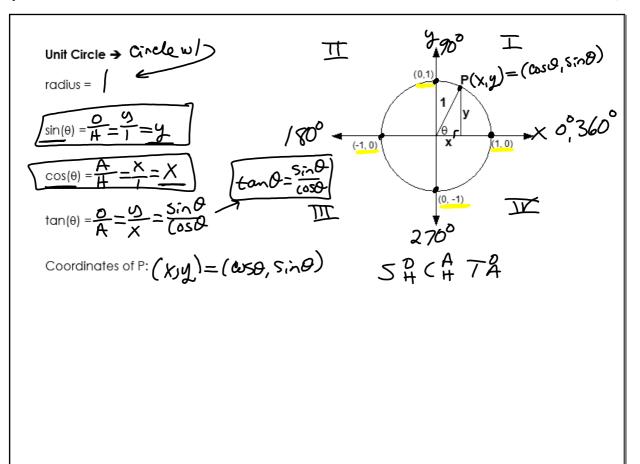
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# **Quadrantal Angles and the Unit Circle**

#### **Quadrantal Angles**

Def: Angles whose terminal side is on the X or y axlo





Aug 8-9:08 PM

