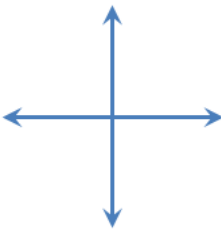
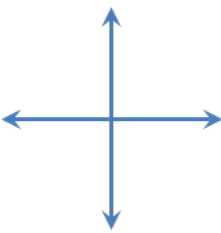
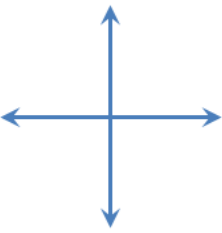
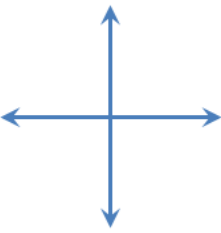
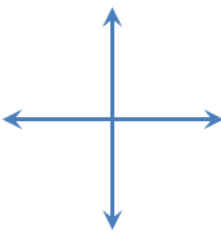
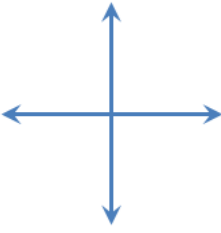
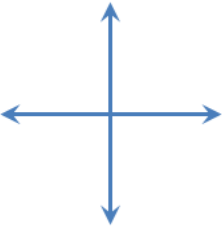
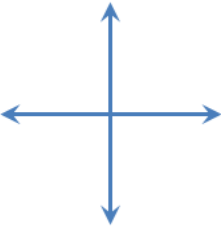


Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Pre-Calculus 11: HW 2.1 Angles in Standard Position**

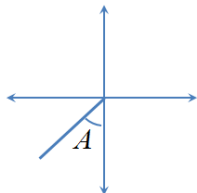
1. Draw each angle in standard position then find the value of the reference angle:

a) $120^\circ$  Reference Angle:	b) $-300^\circ$  Reference Angle:	c) $235^\circ$  Reference Angle:	d) $-420^\circ$  Reference Angle:
e) $800^\circ$  Reference Angle:	f) $1000^\circ$  Reference Angle:	g) $-500^\circ$  Reference Angle:	h) $-3000^\circ$  Reference Angle:

2. Given each pair of angles, indicate whether if they are co-terminal. Show your work to justify your answer:

a) $35^\circ, 695^\circ$	b) $900^\circ, 330^\circ$	c) $720^\circ, 1080^\circ$
d) $-475^\circ, 605^\circ$	e) $-2590^\circ, 290^\circ$	f) $1825^\circ, 375^\circ$

3. What does it mean that an angle is in standard position? Explain:
  
4. What is the smallest positive co-terminal angle of  $2000^\circ$ ? Which quadrant is it in?
  
5. Give a general formula for all the co-terminal angles of  $-5200^\circ$
  
6. Write a general formula for all co-terminal angles of    a)  $75^\circ$                     b)  $-200^\circ$
  
7. An angle in quadrant 3 has a reference angle of  $31^\circ$ . If the angle is greater than  $600^\circ$ , then what is the smallest possible answer?
  
8. Given that angle "A" is  $47^\circ$ , what is the value of the angle in standard position?



9. Angle "x" is between  $0^\circ$  and  $360^\circ$ , and has a reference angle of  $24^\circ$ . What are all the possible values of angle "x"?