Angles Review WS   NAME _____

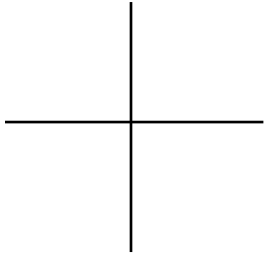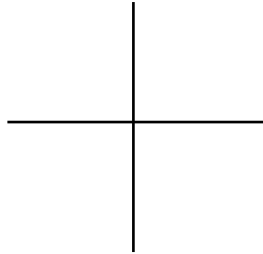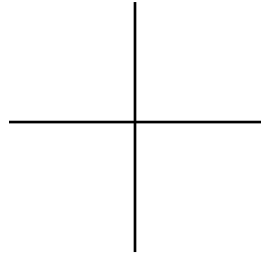**I. Sketch each of the following angles in standard position.**
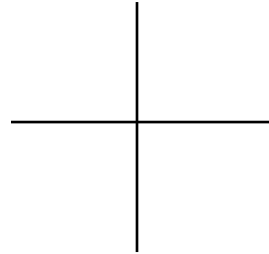
1. 150°

2. -120°

3. $-\dfrac{7\pi}{4}$

4. $\dfrac{2\pi}{3}$

II. Determine the quadrant in which the terminal side of the angle lies.

5. 130° _____

6. -336° _____

7. 285° _____

8. -260° _____

9. $\dfrac{22\pi}{3}$ _____

10. $\dfrac{7\pi}{5}$ _____

III.   Express each of the following in radian measure. Leave your answer in terms of π.

11. 150° _____

12. 315° _____

13. -240° _____

IV.   Express each of the following in degree measure.

14. $\dfrac{5\pi}{9}$ _____

15. $-\dfrac{7\pi}{12}$ _____

16. $\dfrac{11\pi}{5}$ _____

V.   Find the reference angle for each of the following.

17. $\dfrac{7\pi}{4}$ _____

18. $\dfrac{14\pi}{5}$ _____

19. 208^0 _____

20. -445^0 _____