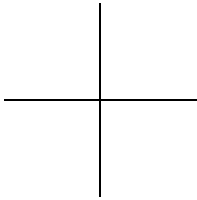


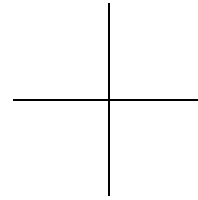
PC 12 LG 6 Worksheet (Ratios From Ratios)

If $\angle D$ is an angle in standard position, in which quadrants may $\angle D$ terminate if:

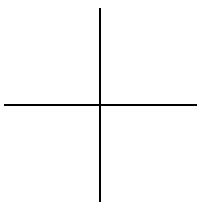
1. $\sec D < 0$



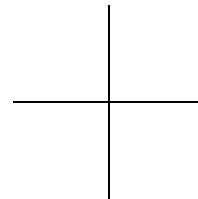
6. $\sec D > 0$ and $\cot D < 0$



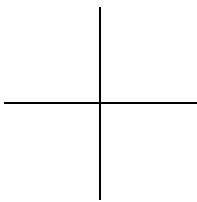
2. $\sin D > 0, 0 \leq D < 2\pi$



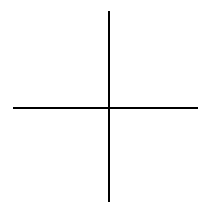
7. $\csc D > 0$ and $\cos D < 0$



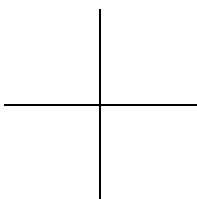
3. $\tan D < 0$ and $\pi \leq D < 2\pi$



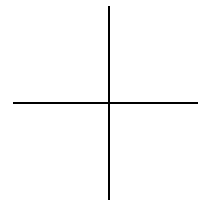
8. $\csc D > 0$ and $\frac{\pi}{2} \leq D < \frac{3\pi}{2}$



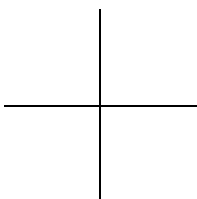
4. $\sec D > 0$ and $-\frac{\pi}{2} \leq D < \pi$



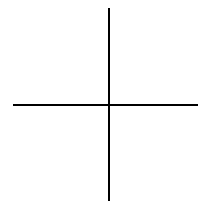
9. $\sin D < 0$ and $-\pi \leq D < \pi$



5. $\csc D < 0$ and $-\pi \leq D < \frac{\pi}{2}$



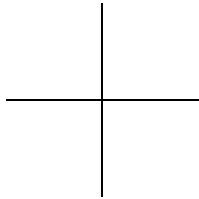
10. $\csc D > 0$ and $-\pi \leq D < 0$



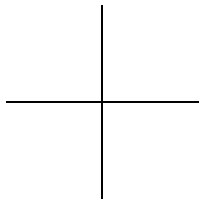
PC 12 LG 6 Worksheet (Ratios From Ratios)

If $\sin A = \frac{-1}{3}$, find all of the values of $\sec A$ when:

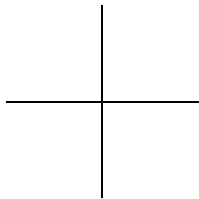
11. $0 \leq A < 2\pi$



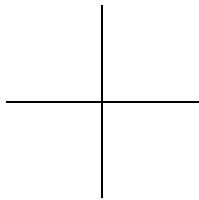
12. $-\pi \leq A < \frac{\pi}{2}$



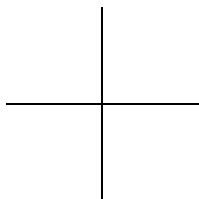
13. $\cot A > 0$



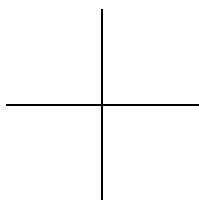
14. $\angle A$ terminates in quadrant IV



15. $\frac{-\pi}{2} \leq A < \pi$



16. $\cos A < 0$ and $\tan A > 0$



Answer Key

1. II, III
2. I, II
3. IV
4. I, IV
5. III
6. IV
7. II
8. II
9. III, IV
10. None
11. $\frac{3}{2\sqrt{2}}, \frac{-3}{2\sqrt{2}}$
12. $\frac{3}{2\sqrt{2}}, \frac{-3}{2\sqrt{2}}$
13. $\frac{-3}{2\sqrt{2}}$
14. $\frac{3}{2\sqrt{2}}$
15. $\frac{3}{2\sqrt{2}}$
16. $\frac{-3}{2\sqrt{2}}$