

1. Find the measure of 2 complementary angles with measures of $(2x + 5)$ and $(x - 8)$.

2. What angle is its own complement?

3. Find the complement and supplement of each angle.

a. 40°

b. 56°

4. Give the smallest positive coterminal angle:

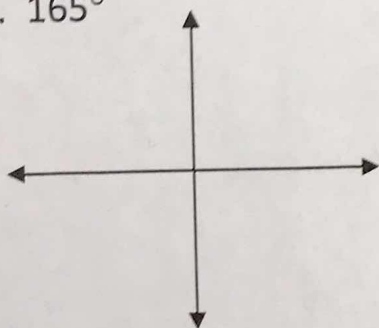
a.) -74°

b.) 378°

c.) 740°

5. Sketch the angle in standard position. Show the correct rotation. State the quadrant of the angles. Find the measure of two coterminal angles, one positive and one negative.

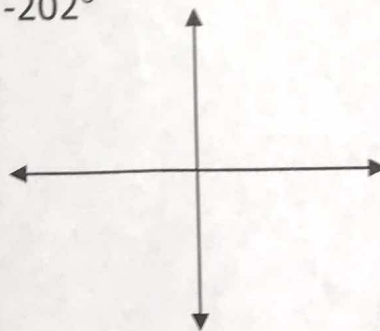
a. 165°



Q _____ Pos. Cot. \angle _____

Neg. Cot. \angle _____

b. -202°



Q _____ Pos. Cot. \angle _____

Neg. Cot. \angle _____

Perform each calculation.

6. $78^{\circ}42' + 19^{\circ}8'$

7. $42^{\circ} - 8^{\circ}9'$

8. $90^{\circ} - 36^{\circ}18'59''$

Convert each angle measure to decimal degrees. Round to the nearest thousandth.

9. $47^{\circ}25'11''$

10. $-61^{\circ}30'$

Convert decimal degrees to degrees, minutes, and seconds.

11. 74.298°

12. 34.817°