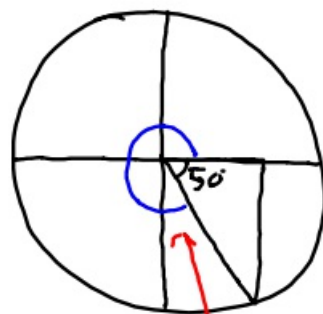
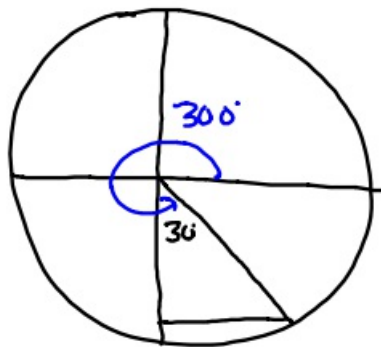
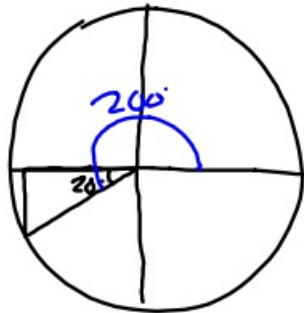
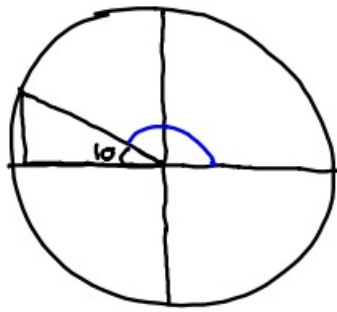
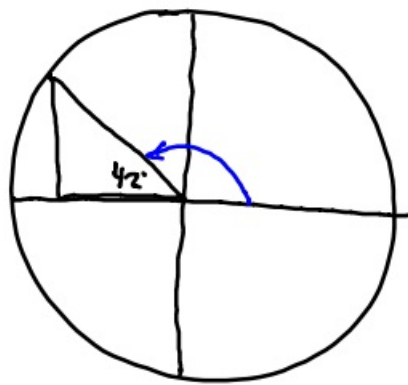


3-1-18 1<sup>st</sup> Trig

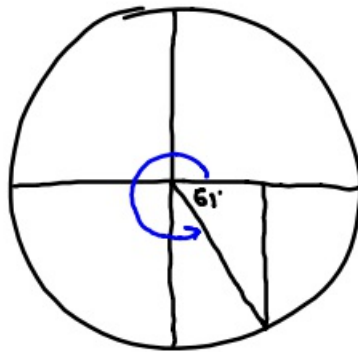


$$360 - 50 = 310$$

$$270 + 40 = 310$$



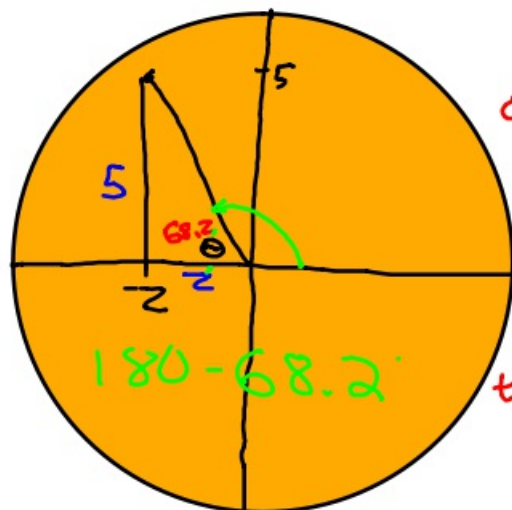
$$180 - 42 = 138^\circ$$



$$360 - 61 = 299^\circ$$

Given the coordinate points determine the angle formed with the x-axis in the first quadrant.

①  $(-2, 5)$



$$180 - 68.2^\circ$$

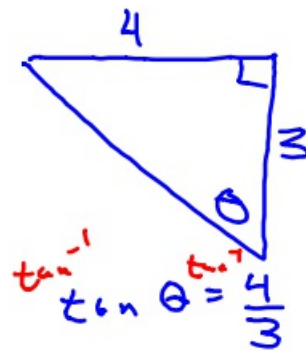
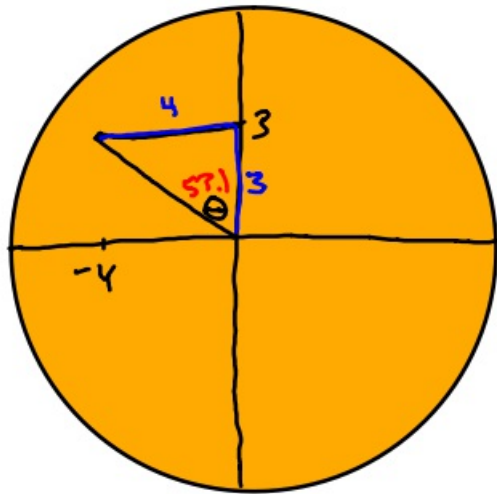
$$\approx 111.8^\circ$$



$$\tan^{-1} \theta = \frac{5}{2}$$

$$\theta \approx 68.2^\circ$$

②  $(-4, 3)$

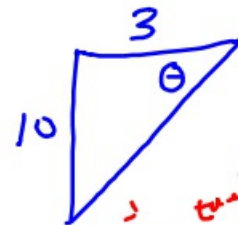
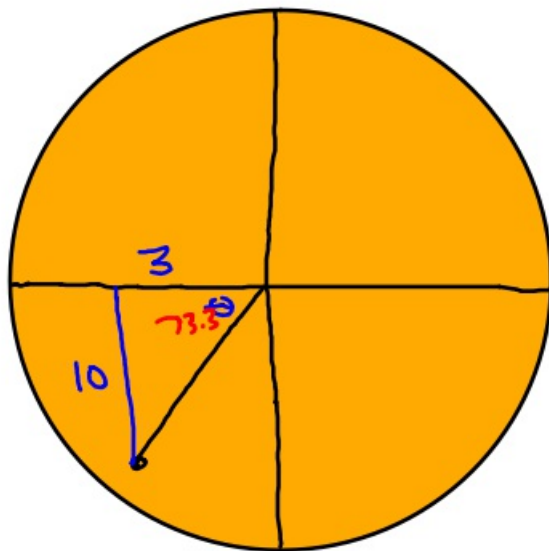


$$\tan^{-1} \frac{3}{4} = \theta$$

$$\theta \approx 53.1$$

$$\theta \approx 90 + 53.1$$
$$143.1^\circ$$

③  $(-3, -10)$

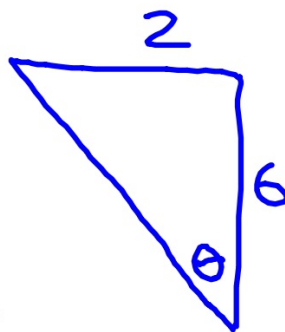
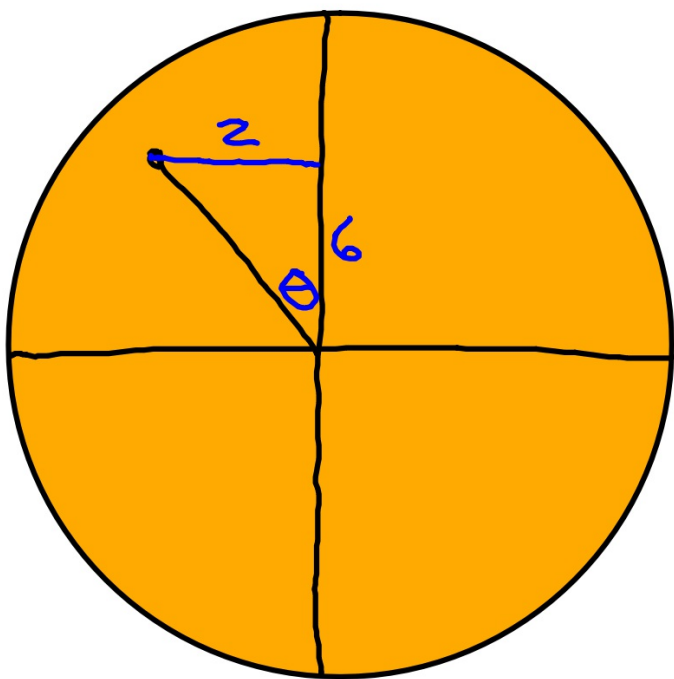


$$\tan^{-1} \frac{10}{3} = \theta$$

$$\theta \approx 73.3$$

$$180 + 73.3 \approx 253.3$$

④  $(-2, 6)$

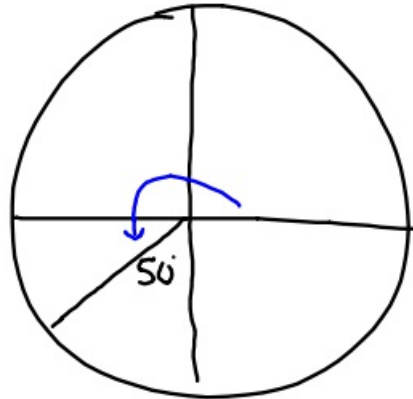
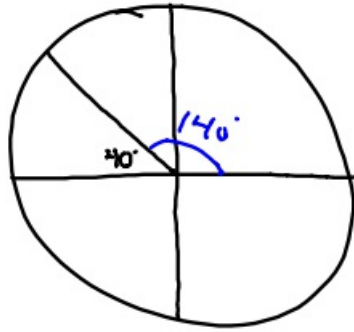


$$\tan \theta = \frac{2}{6}$$

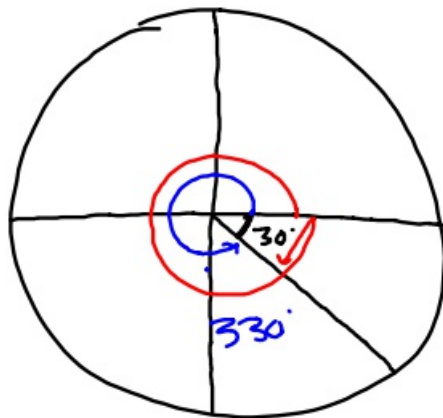
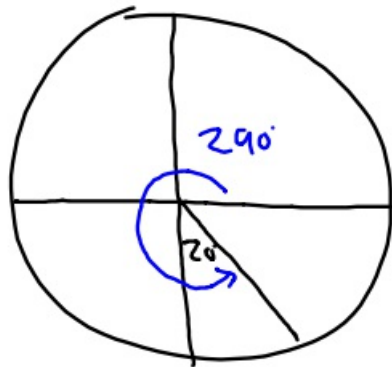
$$\theta \approx 18.4$$

$$90 + 18.4 \approx 108.4$$

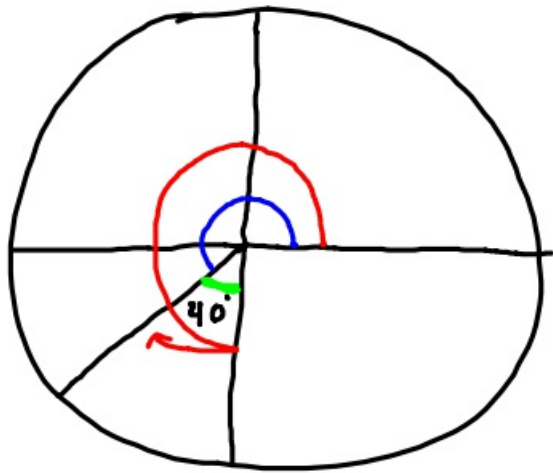
3-1-18 3<sup>rd</sup> Trig



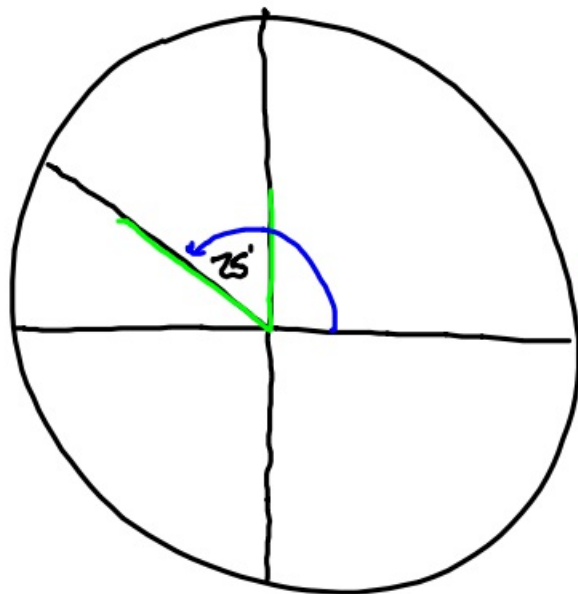
$$270 - 50 = 220$$



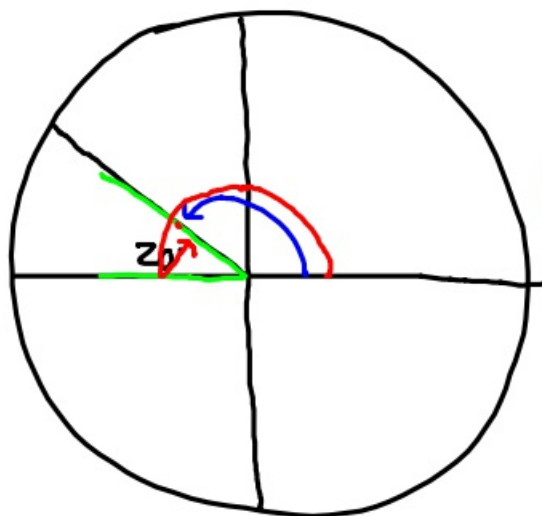
$$360 - 30 = 330$$



$$270 - 40 = 230^\circ$$



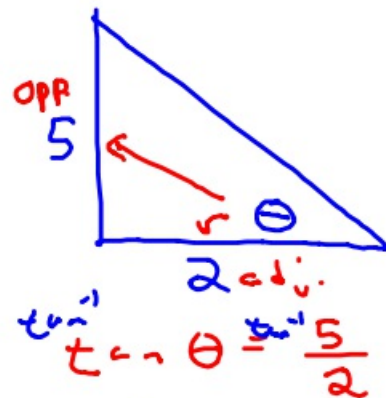
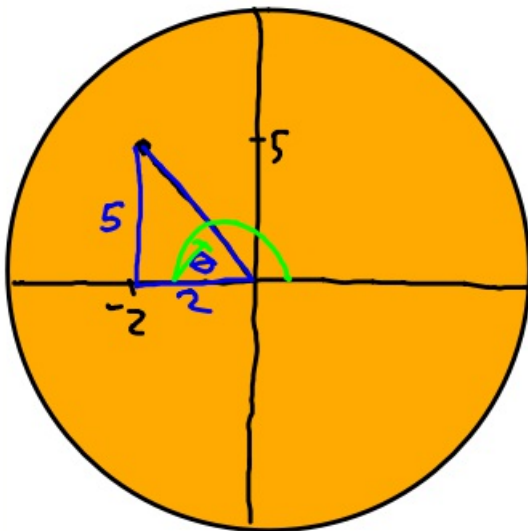
$$90 + 25 = 115^\circ$$



$$160^\circ$$

Given the coordinate point, find the angle formed with the x-axis in the first quadrant.

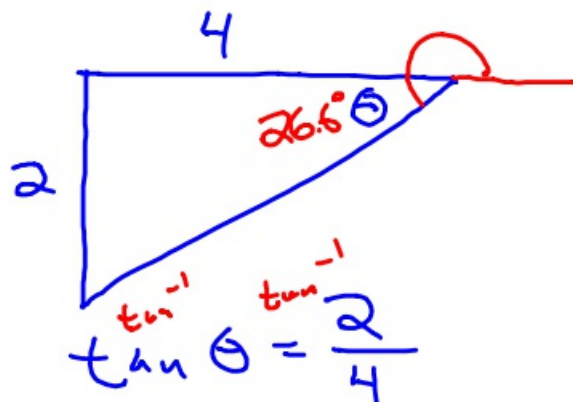
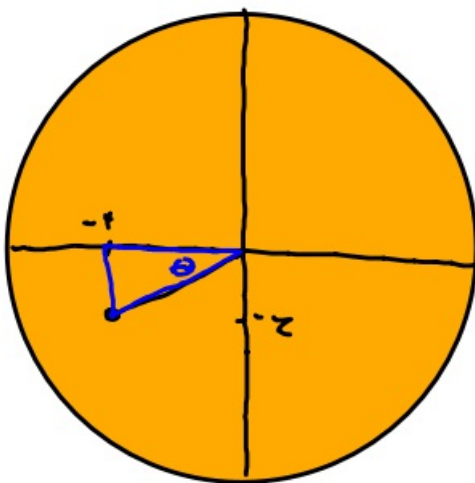
①  $(-2, 5)$



$\theta \approx 68.2$

$180 - 68.2 \approx 111.8$

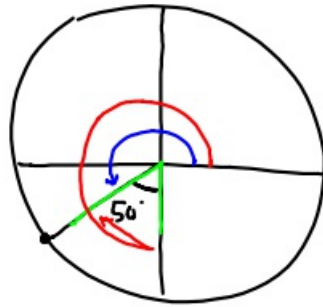
②  $(-4, -2)$



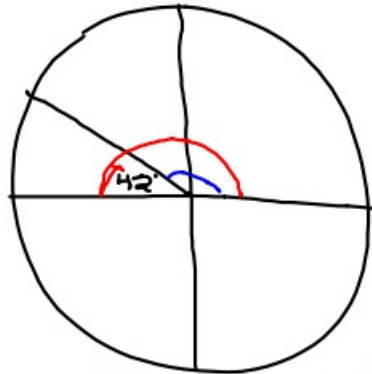
$180 + 26.6$   
 $206.6$

$\theta \approx 26.6$

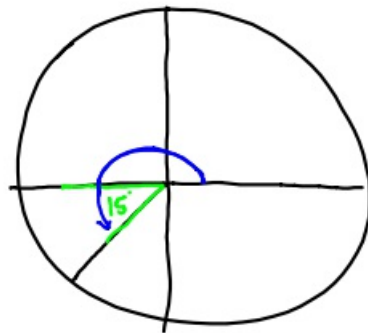
3-1-18 4<sup>th</sup> Trig



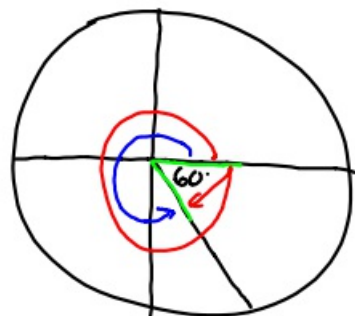
$$270 - 50 = 220^\circ$$



$$180 - 42 = 138^\circ$$

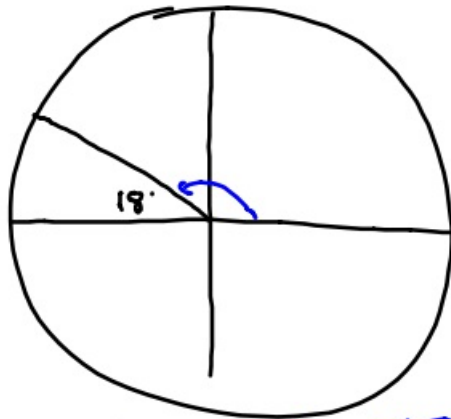


$$180 + 15 = 195^\circ$$

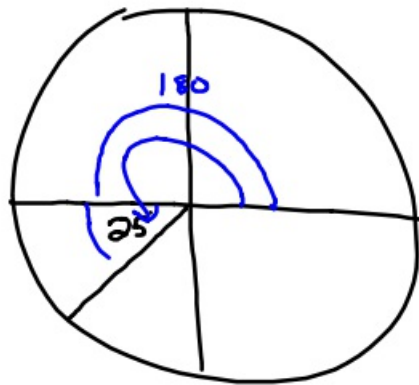


$$360 - 60 = 300^\circ$$

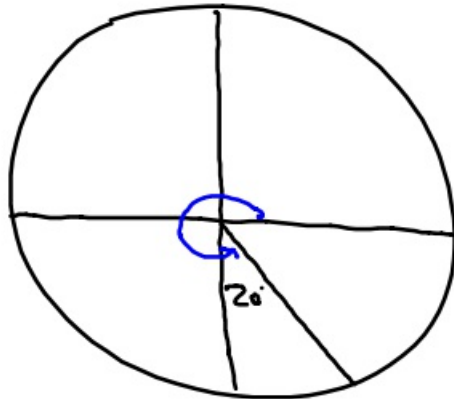




$$180 - 18 = 162$$



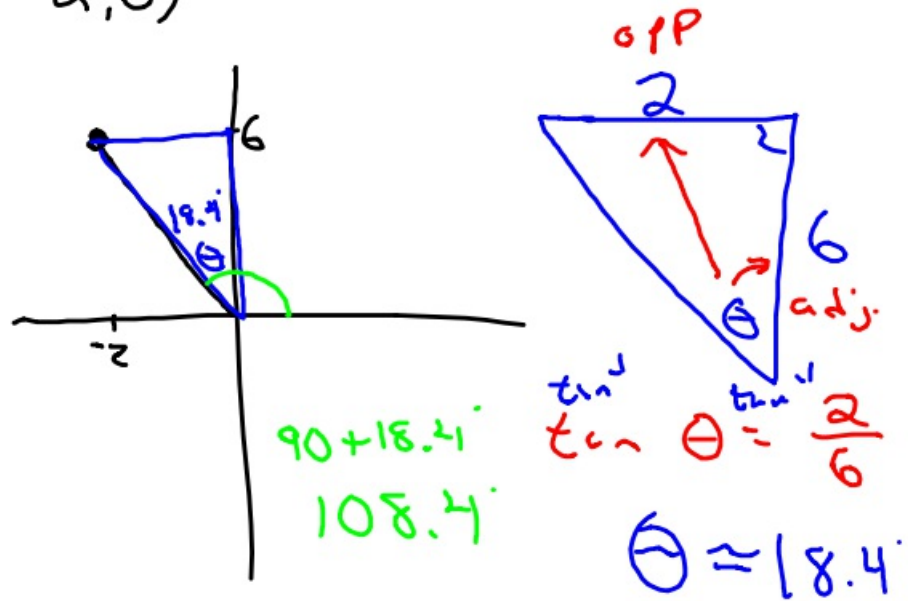
$$\begin{array}{r} 180 \\ + 25 \\ \hline 205 \end{array}$$



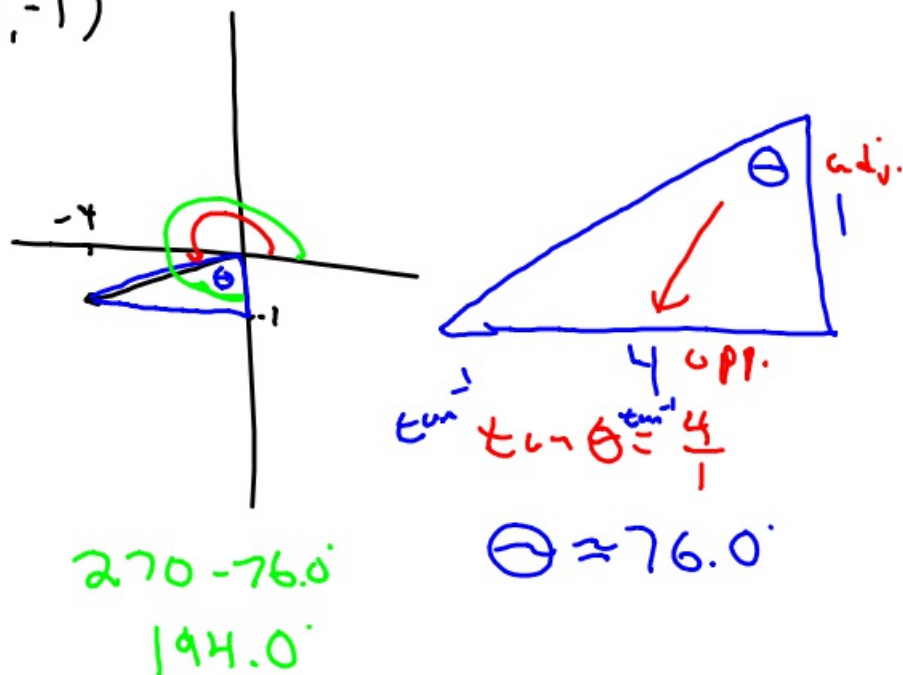
$$290$$

Given the coordinate point, find the angle formed with the x-axis in the first quadrant.

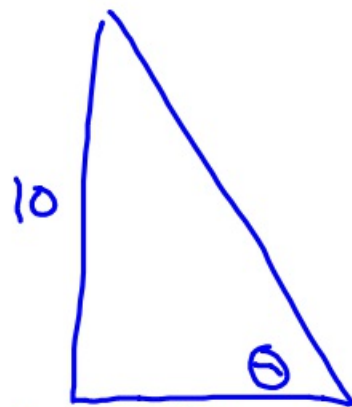
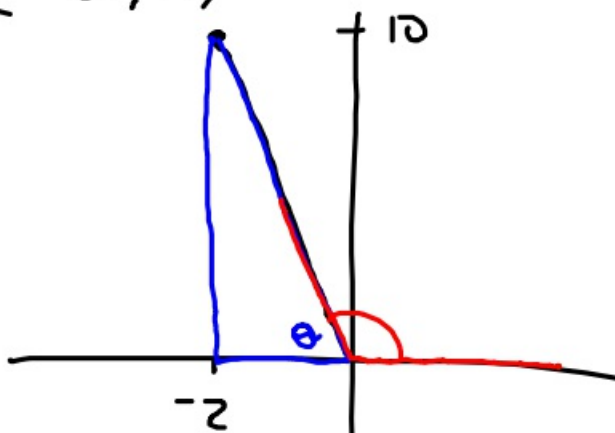
①  $(-2, 6)$



②  $(-4, -1)$



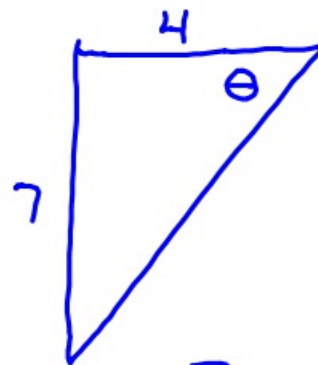
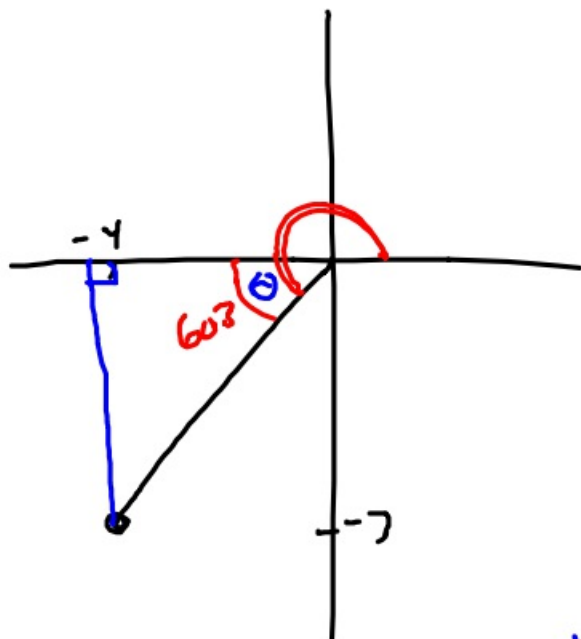
③  $(-2, 10)$



$$\tan^{-1} \frac{10}{2}$$

$$180 - 78.7^\circ \Rightarrow 101.3^\circ$$

④  $(-4, -7)$



$$\tan^{-1} \frac{7}{4}$$

$$\theta = 60.3^\circ$$

$$180 + 60.3^\circ = 240.3^\circ$$