Pre-Calculus 11 Angles in Standard Position...again

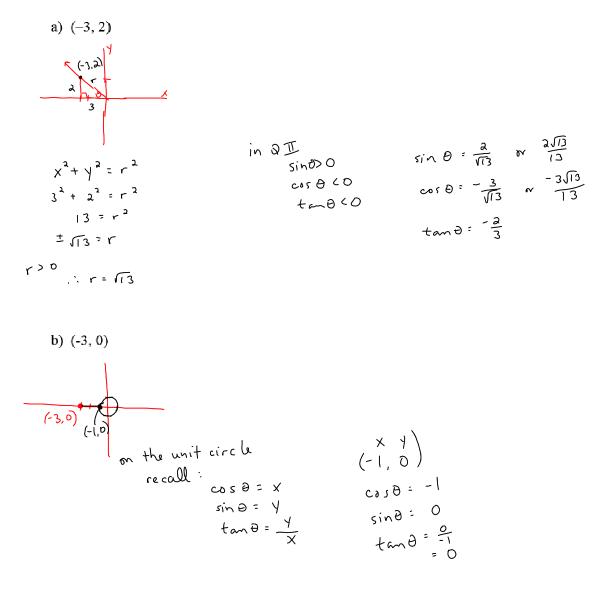
Examples

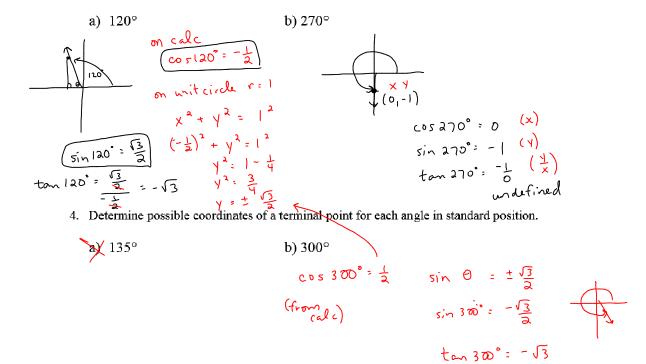
1. The point P(-5, 12) is on the terminal arm of an angle θ in standard position. $x^{2} + y^{2} = r^{2}$ $5^{2} + 12^{2} r^{2}$ $169 = r^{2}$ $13^{2} r^{2}$ a) Determine the distance r from the origin to P. b) Determine the primary trigonometric ratios of θ . (5, 12, 13 triplet) $\cos \Theta = \frac{-5}{13}$ USE SOH CAH TOA 5,020 0 2 6200 $\sin \theta = \frac{12}{13}$ tendio $\tan \theta = -\frac{12}{5}$

c) Determine the measure of θ to the nearest degree.

$$\theta = \cos^{-1} \left(-\frac{5}{13} \right)$$
$$\approx 112.62^{\circ}$$

2. P(x, y) is a point on the terminal side of angle θ in standard position. Determine $\sin\theta$, $\cos\theta$, and $\tan\theta$ for the following points.





3. Determine the exact primary trigonometric ratios for each angle in standard position.

Assignment: pg _450; #7., 9, 14, 15 pg. 462; #5, 7a	
pg. 432 # 4,8 pg	5 450 [⊭] 6,10b