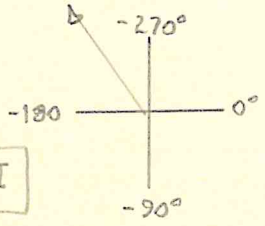
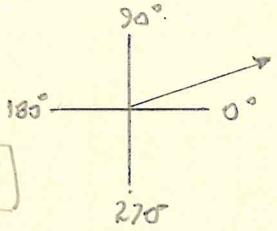
Pg. 262, # 36

a) $-245.25°$



Quadrant II

b) $12.35°$



Quadrant I

Pg. 262, # 44

a) $\theta = 114°$

+: $114° + 360° = \boxed{454°}$

-: $114° - 360° = \boxed{-246°}$

b) $\theta = -390°$

+: $-390° + 720° = \boxed{330°}$

-: $-390° + 360° = \boxed{-30°}$

Pg 263, # 100 Given: $r = 12$ cm, $\theta = 135°$

Find s using: $s = \frac{\pi r \theta}{180°} = \frac{\pi (12) 135°}{180°} = \boxed{9\pi \text{ cm}}$

or $\boxed{28.274 \text{ cm}}$

Pg. 262, # 82 Convert $490.75°$ to DMS

Now, $490.75° = 490° \ (.75) \cdot 60' = \boxed{490° \ 45'}$