

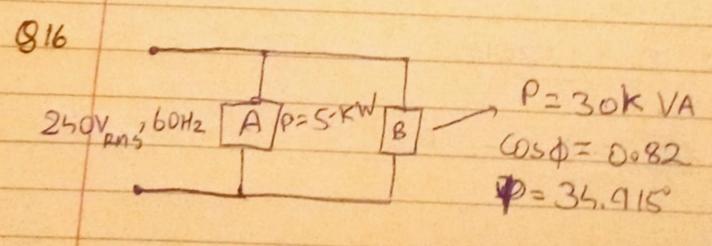
$$T = i(t) = V_S = 8 | -h_0 = 1.52 - 0.72 = 1.682 | -25.346 A$$

$$J_1 = i_1(t) = I_{\times 6i} = 6i_{\times}(152 - 0.72) = 2.257 | 1.219 \text{ A}$$

$$2-2i_1+6i_2 = 2.257 | 1.219 \text{ A}$$

815

$$2hoVams, 5oH2$$
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Power emitted = P+Qg P = 30,000 × cos \$ = 24600 W Q = 30,000 × Sind= 17170.81 VAR 0 = ton-1(2) = 34.915°

a) Apparent power = 25600 + 5000 = 29600 v b) Reactive power = 17170.82 VAR

c) 
$$(05(34.915) = 0.820$$
  
 $6an d = 0!$   
 $29600$   
 $=) 0.484 = 0!$ 

$$coy = 0.9$$
  
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a) 
$$g' = \frac{V^2}{xc} = V^2 (\omega c)$$

$$=) C = O'$$

$$V^2 \omega$$

=) 
$$(=\frac{2844.42}{(240)^2 \times 600.22}$$
 =  $[1.309 \times 10^{-4} C]$