1-2)

$A_x = A\cos\theta_A = 8*\cos270^o = 0$

$A_y = A\sin\theta_A = 8*\sin270^o = -8$

A = -8 ***j*** m.

$B_x = B\cos\theta_B = 15*\cos60^o = 7.5$

$B_y = B\sin\theta_B = 15*\sin60^o = 13$

B = 7.5 ***i*** + 13 ***j*** m.

$C_x = C\cos\theta_C = 12*\cos205^o = -10.9$

$C_y = C\sin\theta_C = 12*\sin205^o = -5.1$

C = -10.9 ***i*** + -5.1 ***j*** m.

$D_x = D\cos\theta_D = 10*\cos143^o = -7.99$

$D_y = D\sin\theta_D = 10*\sin143^o = 6.02$

D = -7.99 ***i*** + 6.02 ***j*** m.