Practice Problem Set 4: Engineering Mechanics (NMEC101)
<u>Answers</u>

1. $A_X = 17\ N\ (\leftarrow), A_Y = 94.06\ N\ (\uparrow), E_X = 17\ N\ (\rightarrow), E_Y = 75.93\ N\ (\uparrow)$

2. $A_X = 45\ N\ (\leftarrow), A_Y = 30\ N\ (\downarrow), B_X = 45\ N\ (\rightarrow), B_Y = 270\ N\ (\uparrow)$

3. $G_X = 2400\ N\ (\rightarrow), G_Y = 1800\ N\ (\uparrow), B_X = 3600\ N\ (\leftarrow), B_Y = 1800\ N\ (\downarrow), E_X = 1200\ N\ (\rightarrow), E_Y = 0,\ \ H_X = 0, H_Y = 0$

4. $F_{BF} = 7200\ N\ (Tension), F_{DG} = 3000\ N\ (Compression)$