HW 1

Section 1.3, question 16a

$\mathrm{A} = (0,0,0), \mathrm{B} = (2,0,-1), \mathrm{C} = (0,4,03).$

$\mathrm{AB} = (2.0,-1) \quad AC = (0,4,-3)$

$$\mathbf{n} = \mathrm{AB} \times \mathrm{AC} = 4\mathbf{i} + 6\mathbf{j} + 8\mathbf{k}$$

So the plane is

$$4(\mathrm{x} - 2) + 6\mathrm{y} + 8(\mathrm{z} + 1) = 0$$

Which is $4\mathrm{x} + 6\mathrm{y} + 8\mathrm{z} = 0.$