Discrete Assignment
EE1205 Signals and Systems

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Question 11.9.5.15: The pth, qth and rth terms of an AP are a,b,c respectively. Show that

$$(q-r)a+(r-p)b+(p-q)c=0 \tag{1}$$

Solution: Let S be the sample space.
A be an event in which the selected council member is a woman.
Now

$$n(S)=10 \tag{2}$$

$$n(A)=6 \tag{3}$$

$$\Pr(A)=\frac{n(A)}{n(S)} \tag{4}$$

$$\Pr(A)=\frac{6}{10} \tag{5}$$

$$\Pr(A)=\frac{3}{5} \tag{6}$$