B) act b+ c= bc +a+ 66, a+b+c= 32, a,b,c = 7, a>c. Find a.

Ans:-
$$ac+b+c = bc+a+66$$

 $\Rightarrow c(a-b) - (a-b) + c = 66$
 $\Rightarrow (c-1)(a-b) + c-1 = 65$
 $\Rightarrow (c-1)(a-b+1) = 65 = 5 \times 13$

Cox 1:
$$-(-1=1)$$
 \Rightarrow $c=2$ \Rightarrow $a-b+1=65 \Rightarrow a-b=64$
 \Rightarrow $a=47$ \Rightarrow $a+b+2=32$
 \Rightarrow $a+b=30$

Case 2:
$$c-1=5$$
 \Rightarrow $c=6$, $a-b+1=13$ \Rightarrow $a-b=12$

$$\Rightarrow a=19$$

$$b=7$$
possible

$$can 3/c = 13$$
, $c = 14$, $a - b + 1 = 5 \implies a - b = 4$
 $a = 11$
 $b = 7$ who possible as $c > 0$

Coxh!
$$c-1=65$$
, $c=66$, $a-b+1=1 \Rightarrow a-b=0$) not passible $a+b=-34$

OS DABC à iscoales. AB=AC=20, BC=30 M a midpoint of AD, ADLBC PSIIBC and P,M, & collinear-Find the length of PQ.

Aus: - We can solve it using co-ordinale geometry.

