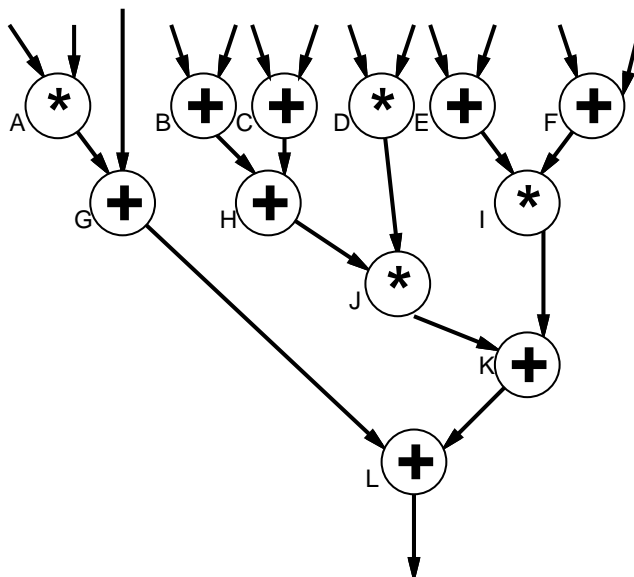Consider the computation:

Assume:

- Both operations (add and multiply) take 1 unit of time to complete

- An adder takes 1 unit of area

- A multiply takes 2 units of area

1. If you have an area budget of 7 units, what mixes of adders and multipliers are possible?

	Mixes					
Add						
Mpy						

2. What is the resource bound for each of the cases identified above?

3. Schedule each of the cases and identify the number of cycles required to compute the graph.

(space to workout schedules on back)

cycle									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

cycle									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

A $*$ B $+$ C $+$ D $*$ E $+$ F $+$ G $+$ H $+$ I $*$ J $*$ K $+$ L $+$