9	Conservationists are studying how the number of bees in a wildflower meadow varies according to the number of wildflower plants. The study takes place over a series of weeks in the summer. A model is suggested for the number of bees, B , and the number of wildflower plants, F , at time t weeks after the start of the study.	
	In the model $B = 20 + 2t + \cos 3t$ and $F = 50e^{0.1t}$.	
	The model assumes that B and F can be treated as continuous variables.	
	(a) State the meaning of $\frac{dB}{dF}$.	[1]
	(b) Determine $\frac{dB}{dF}$ when $t = 4$.	[4]
	(c) Suggest a reason why this model may not be valid for values of t greater than 12.	[1]