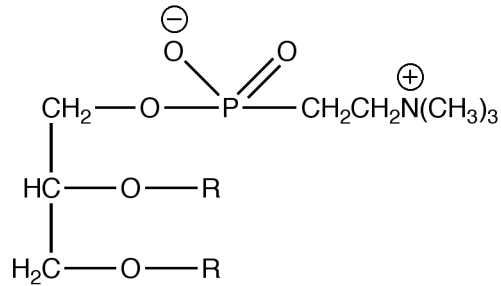
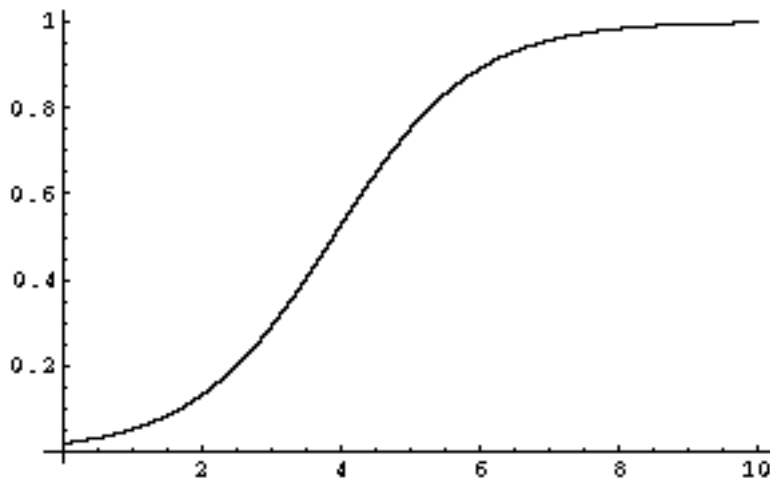


Exercise 2: Lipids

1. Given the melting profile of a membrane bilayer consisting of



where R = palmitate,



where the x-axis is temperature in °C and the y-axis is the degree of fluidity (higher value means the membrane is more fluid), how does the curve shift if:

- half the palmitate were replaced with oleate
- the palmitate were replaced with dihydrooleate
- the choline head group is replaced with $-\text{OCH}_2\text{CH}_3$

