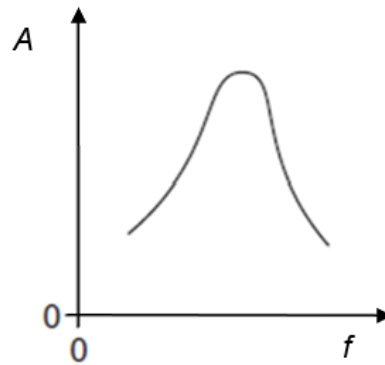


- 13 A periodic force is applied to a lightly-damped object, causing the object to oscillate. The graph shows how the amplitude  $A$  of the oscillations varies with the frequency  $f$  of the periodic force.



Which of the following statements best describes how the shape of the curve would differ if the damping were greater?

- A The curve would be lower at all frequencies.
- B The curve would be higher at all frequencies.
- C The curve would be unchanged except at frequencies above the resonant frequency where it would be lower.
- D The curve would be unchanged except at frequencies above the resonant frequency where it would be higher.