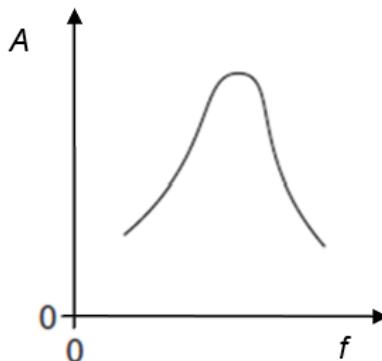


- 13** A periodic force is applied to a lightly-damped object, causing the object to oscillate. The graph shows how the amplitude A of the oscillations varies with the frequency f of the periodic force.



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.