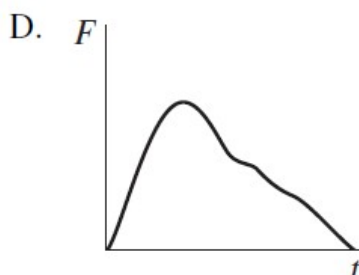
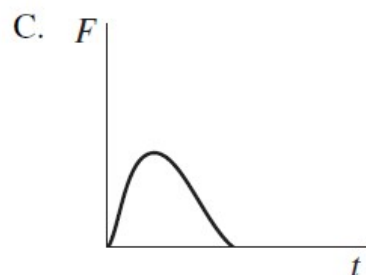
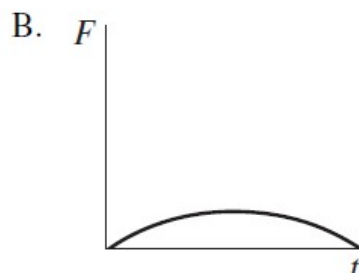
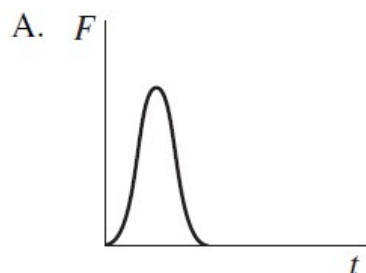


Physics 12 Review #26

1.

An object experiences a varying force as shown in the following  $F-t$  graphs. Which graph shows the largest change in momentum?



2.

A  $7.3 \times 10^3$  kg space vehicle and its empty  $6.8 \times 10^2$  kg booster unit are moving together through space at 370 m/s. An explosion lasting 2.2 s is used to separate the two parts. If the speed of the space vehicle after the separation is increased to 430 m/s, what impulse acted on the booster unit?

- A.  $4.1 \times 10^4$  N · s
- B.  $2.0 \times 10^5$  N · s
- C.  $2.2 \times 10^5$  N · s
- D.  $4.4 \times 10^5$  N · s