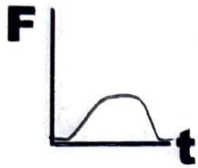


For each pair of situations, sketch out which Force vs. Time graph it would have.

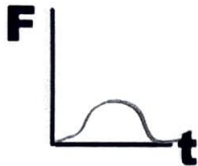


I caught a fastball with a glove.

Vs.

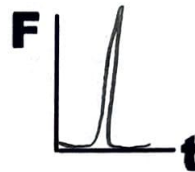


I caught a fastball without a glove.



I landed on a trampoline.

Vs.

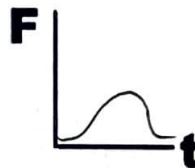


I landed on concrete.



Getting hit in the face with a basketball.

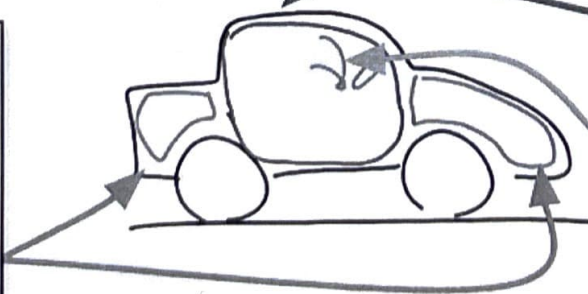
Vs.



Getting hit in the face with a water balloon.

Car Safety Systems:
Label what each part is and what it does.

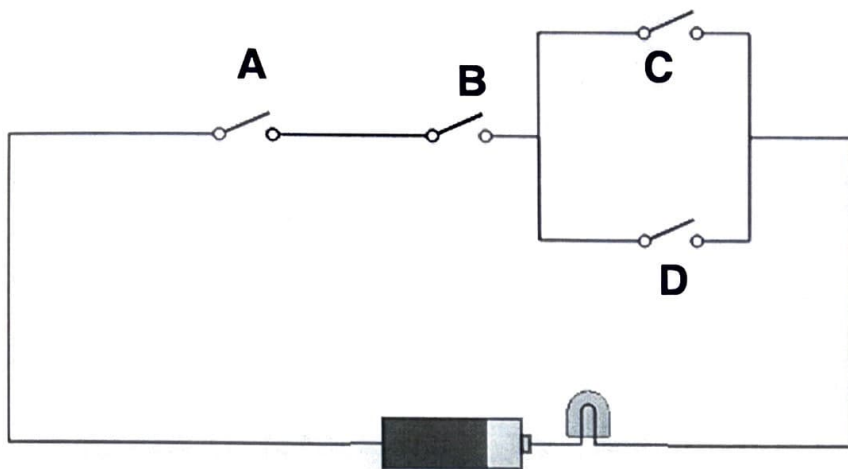
Crumple zones
designed to crush to increase time and reduce force.



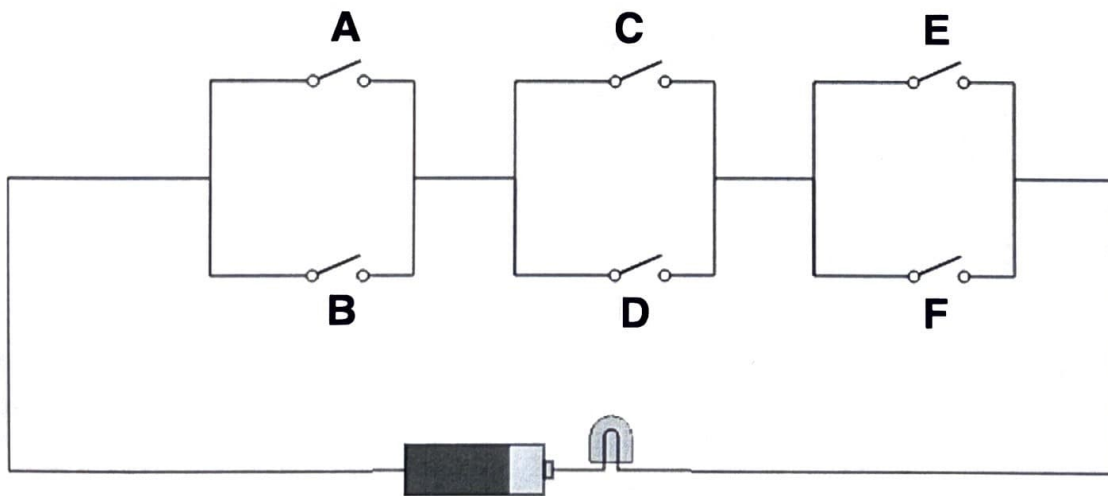
safety cage
designed strong to prevent passenger from being crushed

Restraints & cushioning
keeps passenger in place & cushions them

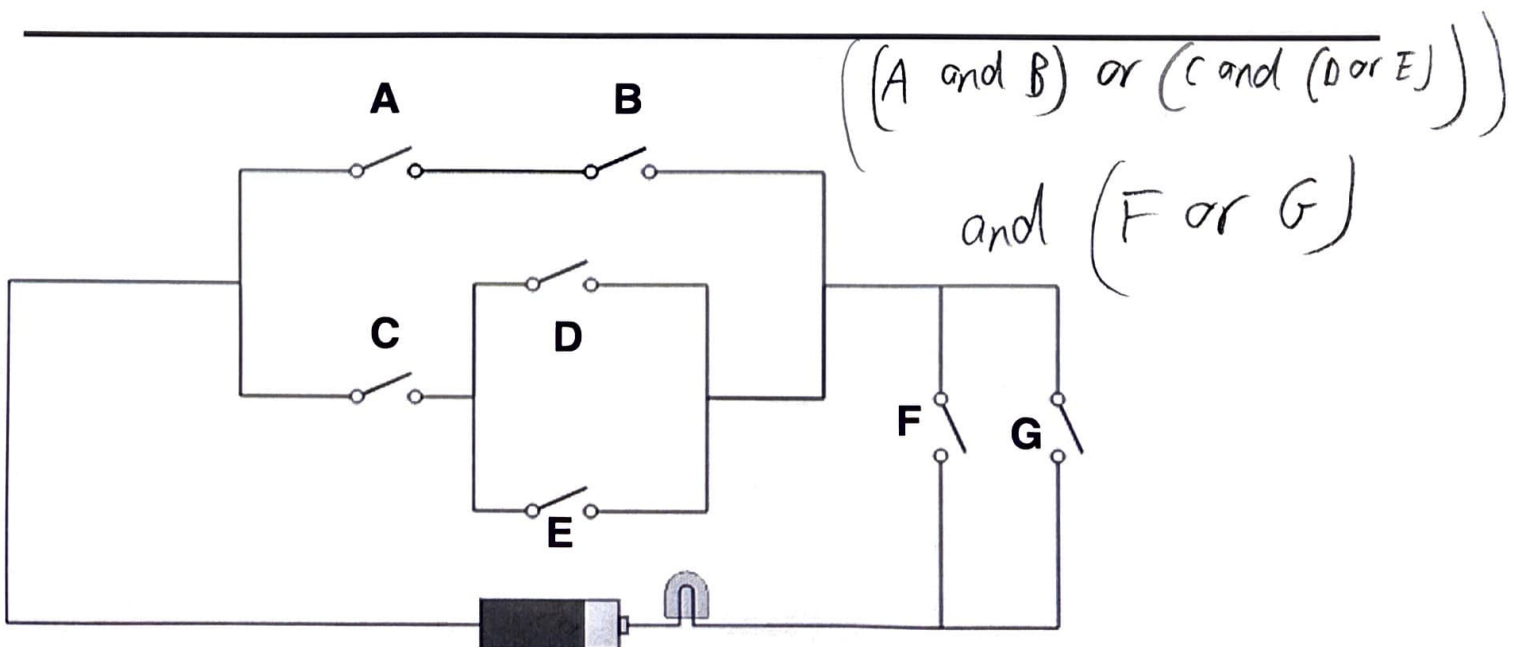
What is the logic statement for the following circuits?



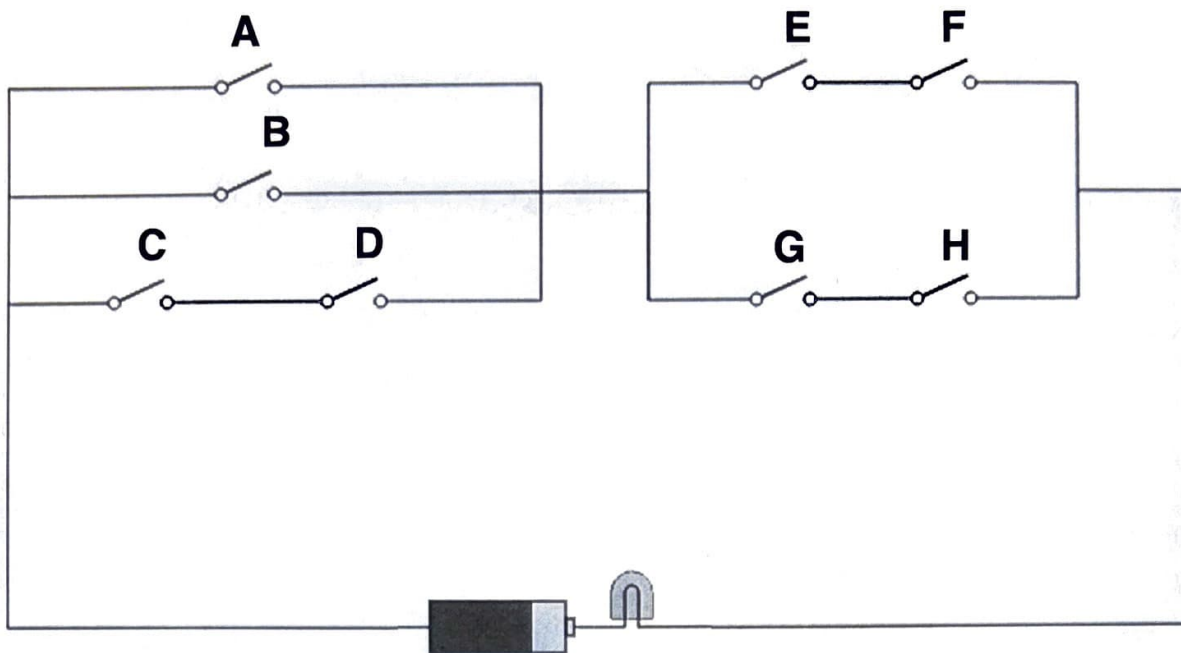
$A \text{ and } B \text{ and } (C \text{ or } D)$



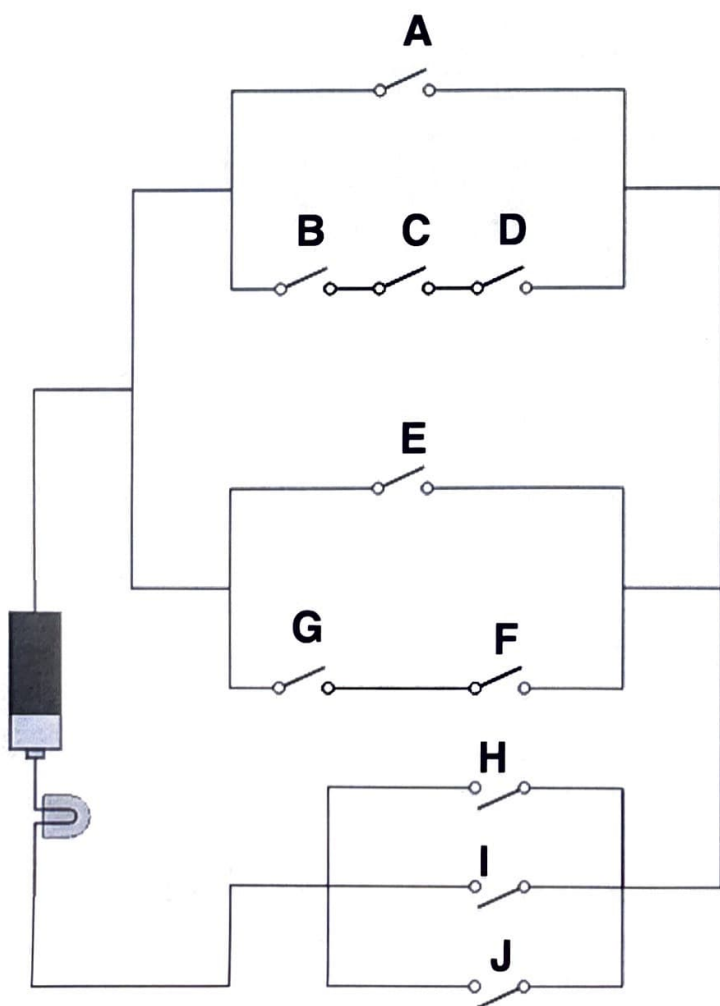
$(A \text{ or } B)$
and
 $(C \text{ or } D)$
and
 $(E \text{ or } F)$



$((A \text{ and } B) \text{ or } (C \text{ and } (D \text{ or } E)))$
and $(F \text{ or } G)$



$(A \text{ or } B \text{ or } (C \text{ and } D)) \text{ and } ((E \text{ and } F) \text{ or } (G \text{ and } H))$



$(H \text{ or } I \text{ or } J)$

and

$((A \text{ or } (B \text{ and } C \text{ and } D)) \text{ or } (E \text{ or } (G \text{ and } F)))$

Match the type of Energy with its description

e Gravitational Potential Energy (GPE)

a Kinetic Energy (KE)

f Elastic Potential Energy (EPE)

c Thermal Energy

g Vibrational Energy

b Electrical Energy

d Chemical Energy

a. Energy of Motion

b. Energy contained in electricity

c. Energy of Heat

d. Energy stored in chemical reactions

e. Energy of height

f. Energy of springy-ness

g. Energy of Vibrations

For the points given on the roller coaster, which one is...

The Fastest spot after the first hill B

The Slowest spot after the first hill D & A

Which spots will have the same speed after the first hill?

A & D with F & H

