HW
29.6.24

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HOME ASSIGNMENT

Q.1 Why is it difficult to hold a hose pipe?

Q.2. What is the principle involved in the flying of rockets & jet plane?

Answer

1. Ans- a) When a fireman holds a hose, which is ejecting large amounts of water at a high velocity, then a reaction force is exerted on him by the ejecting water in the backward direction.

b) This is because of Newton's third law of motion. As a result of the backward force, the stability of the fireman decreases.

2. Ans- As jet engine's exhaust gas ignites back, the plane itself needs to move forward. In simpler words, the action, the force of the exhaust gas shooting backwards is equal & opposite to the reaction that is the force of the plane tending to move forward.