

Newton's 2nd Law and Free Body Diagrams

List 6 Forces that may occur in a free body diagram

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

A 6.0 kg box is pulled with a force of 22 N. A frictional force of 4 N opposes the motion. Determine the acceleration of the box.

1. FBD
2. F_{net}
3. Input Values
4. Solve

A bucket of water is lifted from a well with an applied force of 50 N. If it accelerates upward at 2.0 m/s^2 , determine the mass of the bucket of water.

1. FBD
2. F_{net}
3. Input Values
4. Solve