

For each of the situations below, sketch a copy of the diagram, and provide an appropriate separate force diagram for the shaded object. Be sure to label your force vectors and make their length approximately equal to their magnitude. The force diagrams should be separate from the sketch.

1. The object is stationary.	2. The object is stationary and is being pushed against a wall.	3. The object is stationary and is being pushed.
4. The object is stationary on an inclined plane.	5. The object is stationary on an inclined plane.	6. The object is suspended from the ceiling.
7. The object is suspended from the ceiling.	8. The object is stationary.	9. The object is stationary.
10. The object is stationary.	11. The object is subjected to a force parallel to the surface.	12. The object is pulled by a force at an angle to the surface.
13. The object is pulled upward at an angle to the right.	14. The object is subjected to a force applied downward at an angle.	15. The object is being pulled at an angle.
16. The object is being pulled upward at an angle to the right.	17. The ball is moving in a parabolic trajectory.	18. The ball is on the top of a parabolic trajectory.

19. Draw your own situation and a corresponding force diagram.

20. Do it again with a new situation.

21. And one more time with a third situation.