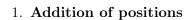
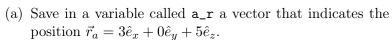
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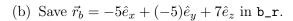
Position vector

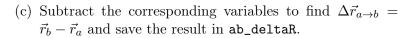
If you are able to solve these problems on your own, then you can assume that you have the minimum knowledge about these topics.

The problems marked with (*) have additional difficulties. Don't hesitate about seeking help from teachers and your classmates if you are not able to complete them.

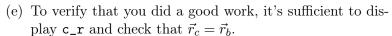


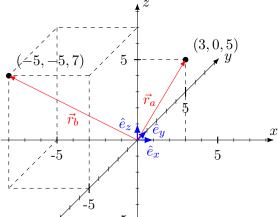












2. (*) Position as a function of a variable

A particle of mass m is attached to a ring of radius R, and therefore its radius measured from the center of the ring is constant. Then it's enough to know the angle φ to describe its position.

