

## Alternative 100 Point Problem

Analyze the statement: “Alignment of the planets creates powerful gravity effects on Earth that could cause earthquakes and other types of natural disasters.”

Recall that a 100 kg person on earth weighs ~982 Newtons. Given the diagram below, calculate the combined gravity exerted by the planets on a 100 kg person situated on Earth. Compare this effect with Earth’s own gravity effect, then comment on the above statement.

*(Sizes and distances shown below are not to scale)*

