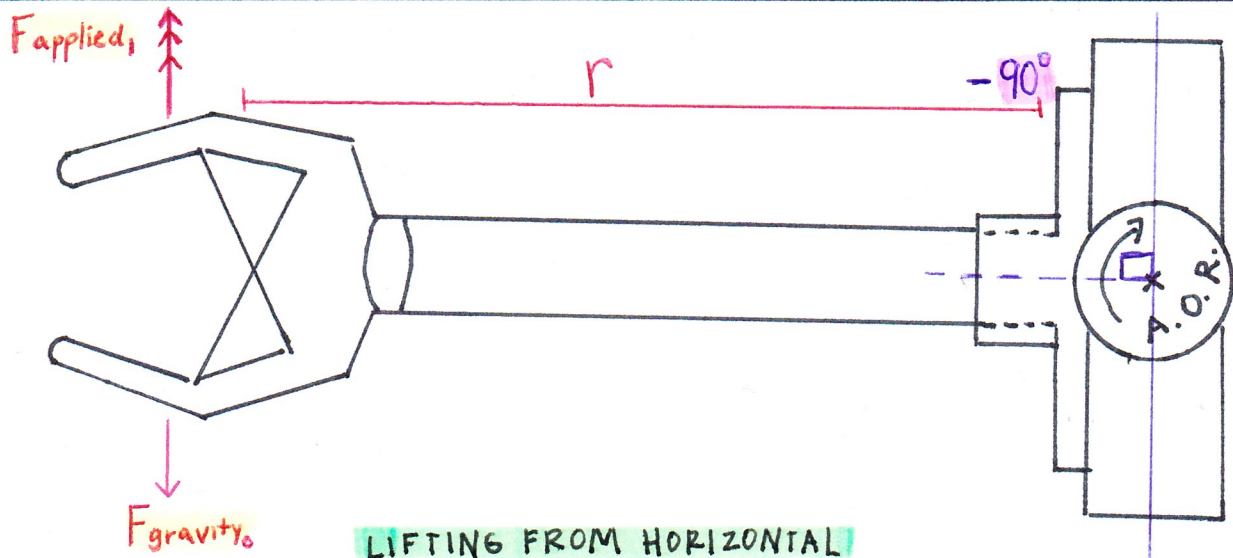


# FREE BODY DIAGRAM: ROTATING ARM & THE EFFECTS OF GRAVITY

A.O.R. = AXIS OF ROTATION

$\gg$  = MAGNITUDE OF FORCE

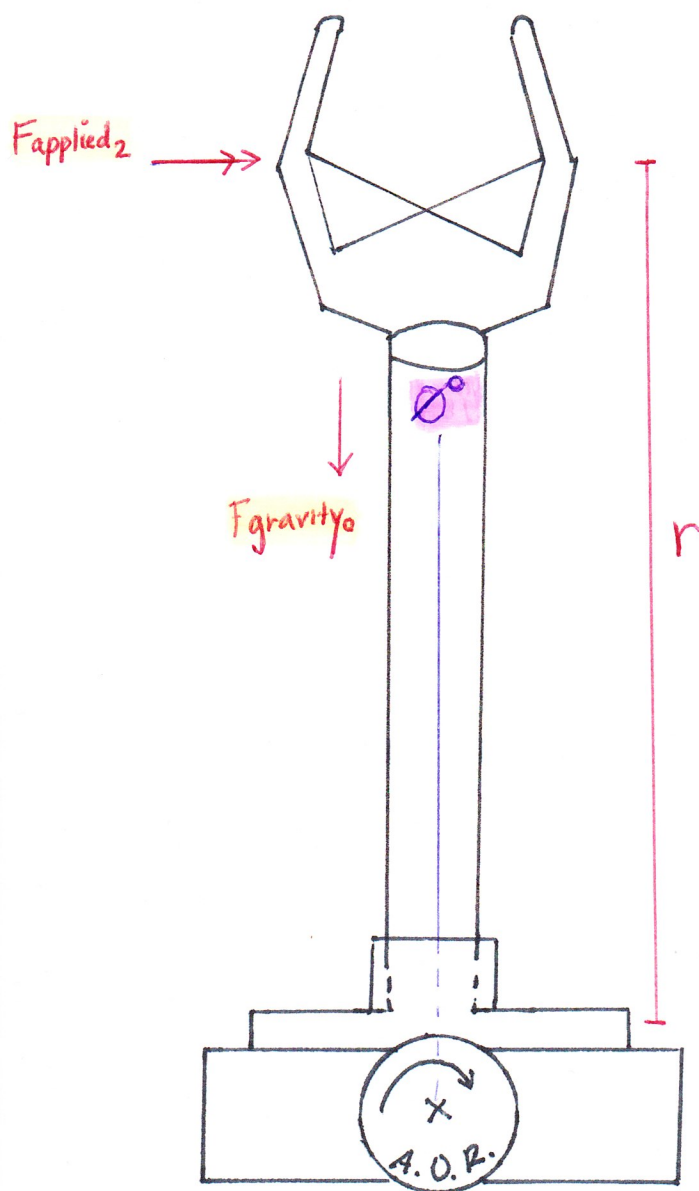
1



LIFTING FROM HORIZONTAL

2

ROTATING FROM VERTICAL



3

ROTATING PAST VERTICAL

