(a) minimum $|MH|$

$MH = 0.24 \text{ N.m/kg; } MK = 1.28 \text{ N.m/kg; } MA = 0.66 \text{ N.m/kg; } Time = 4.58 \text{ s}$

(b) minimum $|MK|$

$MH = 0.98 \text{ N.m/kg; } MK = 0.51 \text{ N.m/kg; } MA = 0.83 \text{ N.m/kg; } Time = 4.12 \text{ s}$

(c) minimum $|MA|$

$MH = 0.62 \text{ N.m/kg; } MK = 0.92 \text{ N.m/kg; } MA = 0.02 \text{ N.m/kg; } Time = 10.98 \text{ s}$

(d) minimum $|MH+MK+MA|$

$MH = 0.48 \text{ N.m/kg; } MK = 1.09 \text{ N.m/kg; } MA = 0.42 \text{ N.m/kg; } Time = 5.68 \text{ s}$