(1) a) $V = 1000 \cdot \pi \, cm^3$
$M = 400 \cdot \pi \, cm^2$
$O = 450 \cdot \pi \, cm^2$

b) $V = 18000 \cdot \pi \, mm^3$
$M = 2400 \cdot \pi \, mm^2$
$O = 2850 \cdot \pi \, mm^2$

c) $V = 300 \cdot \pi \, dm^3$
$M = 120 \cdot \pi \, dm^2$
$O = 170 \cdot \pi \, dm^2$

d) $V = 108 \cdot \pi \, m^3$
$M = 72 \cdot \pi \, m^2$
$O = 90 \cdot \pi \, m^2$

(2) a) $r = 0.357 \, m$
$h = 0.178 \, m$
$V = 0.0714 \, m^3$

b) $h = 2.653 \, cm$
$M = 50 \, cm^2$
$O = 106.55 \, cm^2$

c) $r = 0.5 \, m$
$h = 0.38 \, m$
$O = 2.77 \, m^2$

d) $r = 0.0781 \, m$
$V = 0.0766 \, m^3$
$M = 1.962 \, m^2$

(3) h = 0.275m