Algebra 14 - Manipulation of Formula

Example 1:

Make g the subject of the equation.

T = 2π$\sqrt{\frac{l}{g}}$

Question 1:

Mae H the subject of the equation:

V = $\frac{1}{3}$πr2H

Question 2:

X = $\sqrt{a}$ + $\frac{1}{\sqrt{a} }$ and y = $\sqrt{a}$ - $\frac{1}{\sqrt{a} }$ a $> $0

Write $\sqrt{x2 - y2}$ in terms of a.

Question 3:

Make R the subject of the equation:

Z = $\sqrt{\frac{kr^{3}}{1-m }}$