Gravity and the Inverse Square Law

Gravity is a great real life application of the inverse (indirect) square law, or, 'y is inversely proportional to the square of x'. The gravity field of a body (comet, planet, star etc) is inversely proportional to the distance from the centre of the body squared. As an equation this is:

$$g \propto \frac{1}{r^2}$$
 \Rightarrow $g = \frac{k}{r^2}$

Witheres:

g = gravity field of a body (acceleration due to gravity in ms⁻²)

r = distance from centre of the body (in m)

Task 1

For each of the bodies listed below, use the figures for surface gravity and radius to find equations for their gravity fields. (Expect large k values!):

Planet	Mercury	Wenturs	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Physics*
Surface Gravity (ms ⁻¹)	3.7	8.87	9.81	3.69	24.79	3.69	8.69	11.15	0.81
Radius (1000m)	2,439	6,051	6,378	3,396	71,492	60,268	25,550	24,764	0,050

"Pluto is no longer called a planet but rather a "dwarf planet". Nevertheless it is still a body with a gravity field that obeys the inverse square law.

You could also try this for the Moon (surface gravity=1.622ms⁻², radius=1,738,140m) or the Sun (surface gravity=274ms⁻², radius=6.955x10⁸m).

Task 2 - The constant k.

In each of your equations the constant k actually represents the mass (77) of each planet multiplied by the gravitational constant (67), as discovered by Sir Isaac Newton. As an equation this is:

$$k = Gm$$
 and hence $g = \frac{Gm}{r^2}$

The gravitational constant is a very small number measured in Newtons or kgms-2:

$$G = 6.674 \times 10^{-11}$$

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