

EX 1: What is the change of force on a spring that obeys Hooke's Law if the displacement is doubled?

$$F = -kx \quad k = 10 \frac{N}{m} \quad x_1 = 1m \quad F_1 = 10N$$

$$x_2 = 2m \quad F_2 = 20N$$

\therefore if x doubles, F doubles.
 $F \propto x$ $\therefore F' = (2x)F$
 $F' = (2)F$

Ex 2: If the velocity of an object is tripled, by how much does the kinetic energy of the object change?

$$KE = \frac{1}{2}mv^2 \quad m = 2kg \quad v = 10m/s \quad KE = 100J$$

$$v = 30m/s \quad KE = 900J$$

\therefore if v triples, KE is $\times 9$

$$KE \propto v^2 \quad \therefore KE' = (3v)^2 KE$$

$$= (3)^2 KE$$

$$= 9KE$$

Ex 3: If the distance from a point charge is halved, by how much does the electric field strength change?

$$E = \frac{kq}{r^2} \quad \text{leave } k \text{ and } q \text{ as variables}$$

$$r_1 = 1 \quad E_1 = \frac{kq}{1^2}$$

$$r_2 = \frac{1}{2} \quad E_2 = \frac{kq}{(\frac{1}{2})^2} = \frac{kq}{(\frac{1}{4})} = 4kq$$

\therefore if r halves, E is $\times 4$

$$E \propto \frac{1}{r^2} \quad \therefore E' = \left(\frac{1}{(\frac{1}{2}r)^2}\right)E = \frac{1}{(\frac{1}{4})^2}E = \frac{1}{(\frac{1}{4})}E$$

$$E' = 4E$$

Ex 4: If a new planet is discovered that has a mass 4 times that of the earth and a gravitational field $1/2$ that of the earth, how does the new planet's radius compare to the earth's?

$$F_w = mg = F_g$$

$$mg = G \frac{mM}{r^2}$$

$$g = G \frac{M}{r^2} \leftarrow \begin{matrix} \text{mass of planet} \\ \text{radius} \end{matrix}$$

Step 1) solve for r $r = \sqrt{\frac{GM}{g}}$

Step 2) set up proportionality $r \propto \sqrt{\frac{M}{g}}$

Step 3) set up new prop. eq. $r' = \left(\sqrt{\frac{4M}{g/2}}\right)r$

Step 4) $r' = \sqrt{\frac{4}{(\frac{1}{2})}} r_e$

$$r' = \sqrt{8} r_e = 2\sqrt{2} r_e$$

$$9.81 = \frac{(6.67 \times 10^{-11})(5.98 \times 10^{24})}{(6.37 \times 10^6)^2} \quad \text{Earth}$$

new planet: $g' = \frac{9.81}{2} \quad M' = 4(5.98 \times 10^{24})$

$$r' = \sqrt{\frac{G(4(5.98 \times 10^{24}))}{(9.81/2)}}$$

$$r' = 1.8 \times 10^7 m$$

$$(2\sqrt{2})(6.37 \times 10^6) = 1.8 \times 10^7 m$$

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Horace, Quintus Horatius Flaccus



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