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Pearson Edexcel

PHYSICS

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INTERNATIONAL AL

1. An ideological planet named KSP completes 100 revolutions within 2yrs and 3 months. Find the angular velocity of the planet in rad s^{-}.

2. A capacitor discharges through a resistor. The time constant of the circuit is 2.5s. calculate the time taken in s, for the charge on the plates of the capacitor to quart.

3. Derive the equation $F = BIL$ using the equation $F = Bqv$. All are in standard notations.

4. A spring is on a frictionless horizontal plane and one end is attached to a fixed point on the horizontal surface. A particle P with a mass of 800g is attached to the other free end of the spring. The particle is moving in a circular motion with a speed of 0.5 m/s. original length of the spring is 30 cm and the spring constant is 5N/m. work out for the extension of the spring when it's in the circular motion.