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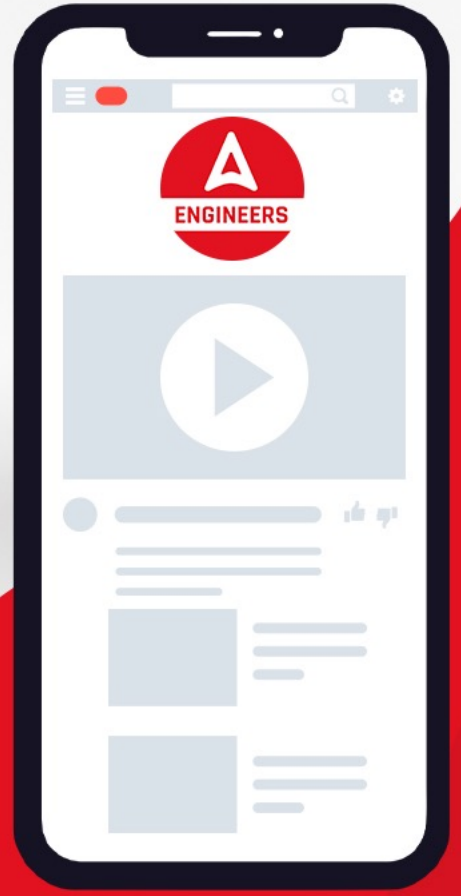

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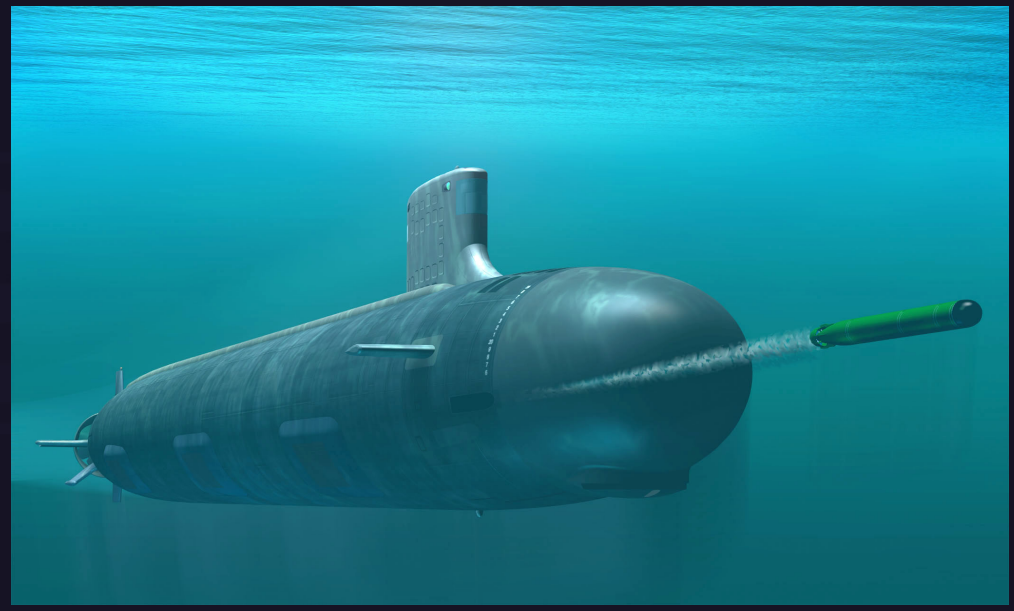
Q –if yield gap between rail is less than thermal elongation then stress will be

(a) Tensile
(b) compressive
(c) No stress
(d) Both a & b

Q – when the depth of immersion increase then distance between CG & CP will be

(a) Increase
(b) Decrease
(c) constant
(d) None



Q – Find out the ratio of reaction for the given two bar when fixed at both end

A. 1:4
B. 4:1
C. 1:2
D. None

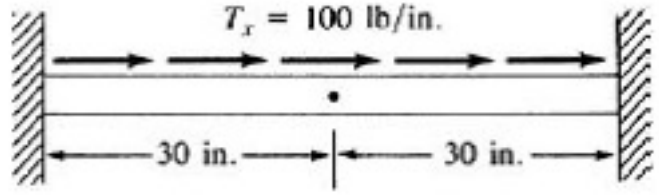
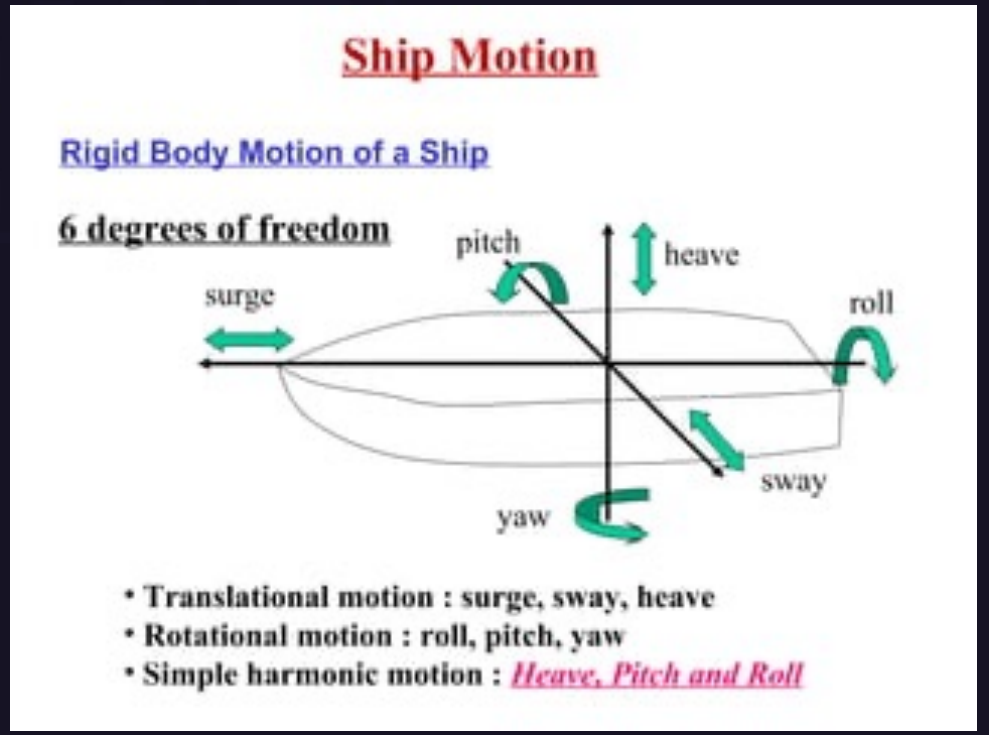


Figure P3–56

Q – which phenomena is more dangerous for ship

(a) Rolling
(b) Pitching
(c) oscillation
(d) Heave



Q – if the all property of fluid does not change w.r.t to time then it called as

(a) Steady
(b) unsteady
(c) uniform
(d) rotational
(e) None

Q – when a composite beam subjected to thermal heating then which one is incorrect

(a) Higher coefficient of linear expansion subjected to compressive stress

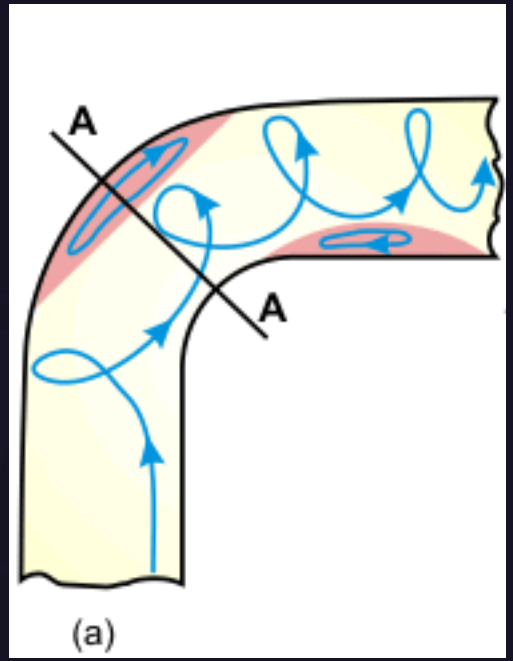
(b) Reaction is same in both bar

(c) net elongation is same

(d) None

Q – When real fluid around bend section then motion is

(a) Irrotational
(b) Rotational flow
(c) steady flow
(d) all of the above



Q – for the given state of stress strain in z direction will be

(a) Zero

(b)

(c)

(d)

Q – A circular plate of diameter 1.5m is submerged vertically in the water with greatest and least depth below the surface being 2.25 m and 0.75 m respectively. What is the total force in kN on one face of the plate?

(a) 16
(b) 26
(c) 12
(d) None

Q – A steel ball of radius 4 cm has a mass of 1.25 kg in air. When weighed inside a liquid its weight becomes 8 N. What is the force of buoyancy on the ball if g = 10 m/s^2?

(a) 1.56 N
(b) 3.6 N
(c) 4 N
(d) NOT

Q – An object weighing 100 N in the air was found to weight 75 N when fully submerged in water. The relative density of the object is

(a) 4.0
(b) 4.5
(c) 2.5
(d) 1.125