For the crane with the following parameters determine the forces for parts a through c:

- Bridge Weight = 10,000 lbs
- Bracket Weight = 150 lbs
- Crane Rail = 400 lbs
- Hoist Weight = 300 lbs
- Hook Weight = 100 lbs
- Runway Beam = 1500 lbs
- Trolley = 1100 lbs
- Crane Capacity = 10 Tons
- Crane is Radio Operated

Determine the following Forces:

- a) Max Wheel Load
- b) Vertical Impact Force
- c) Lateral Force
- d) Longitudinal Force

LAT =
$$\frac{0.2(R(+HT))}{\#WHEELS} = \frac{0.2(10T(20001bs/_T) + (3001bs + 1001bs + 1001bs))}{4}$$

d) LUNGITUDINAL FORCE -> 4.9.5

LAT=1075 165

