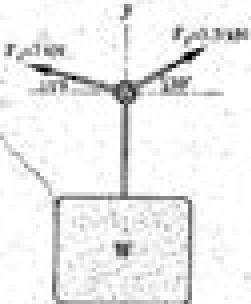


ENGINEERING MECHANICS

STATICS

1. GE Board Nov. 2010

A concrete block is supported by two guy wires attached to an anchor ring as shown:



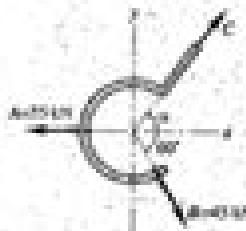
Determine the following:

- Resultant force on the anchoring.
- Angle of resultant force with respect to horizontal.
- Weight W of the concrete block with a factor of safety of 1.25 in prevent uplift.

a) 3.55 kN c) 4.04 kN
 b) 3.20 kN d) 5.15 kN
 a) 23.5° c) 43.7°
 b) 55.7° d) 36.6°
 a) 7.18 kN c) 8.33 kN
 b) 6.32 kN d) 4.45 kN

2. GE Board May 2013

The block is subjected to three forces: A, B and C as shown. A = 35 kN, B = 45 kN.

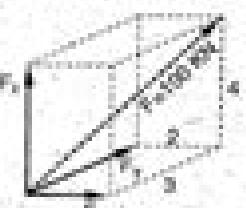


- If the resultant of the forces is 80 kN and is acting along the positive x -axis, find the angle α .
- If $\alpha = 60^\circ$, what is the value of force C such that the resultant of forces A, B and C acts along the x -axis?
- For the forces A, B, and C to be in equilibrium, what is the magnitude of the resultant force C?

a) 37 kN c) 51 kN
 b) 45 kN d) 58 kN
 a) 38.1 kN c) 29.7 kN
 b) 40.9 kN d) 54.3 kN

3. GE Board May 2001

The resultant of the concurrent forces has a magnitude of 1000 kN and acts through the origin and points $x = 2$, $y = 3$ and $z = 4$.



- Which of the following gives the x -component of the resultant force.

a) 371.00 kN c) 364.72 kN
 b) 348.34 kN d) 361.58 kN

- Which of the following gives the y -component of the resultant force.

a) 542.83 kN c) 556.59 kN
 b) 545.73 kN d) 572.61 kN

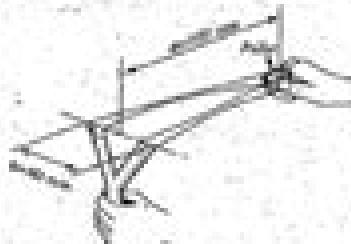
- Which of the following gives the z -component of the resultant force.

a) 748.19 kN c) 737.05 kN
 b) 750.37 kN d) 742.12 kN

4. GE Board Nov. 2010

The figure shows a pulley about to be fixed from a ring. The total unstretched length of the rubber band is 40 mm. The rubber band elongates 1 mm for every 15 N force.

GIVEN: $a = 100$ mm $b = 40$ mm



- As the pulley is about to be extended, how much is the total elongation (mm) of the rubber band?

a) 100 mm c) 123 mm
 b) 101 mm d) 144 mm

- What is the force (N) exerted on each leg of the rubber band?

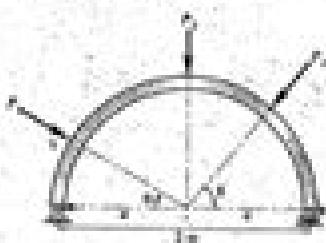
a) 1040 N c) 1280 N
 b) 1080 N d) 1440 N

- What is the pulling force P (N)?

a) 2080 N c) 3880 N
 b) 2110 N d) 1040 N

5. GE Board Nov. 2013

From the figure below



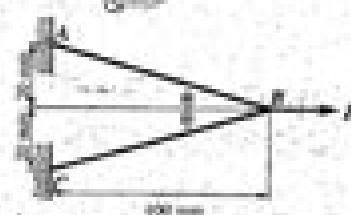
Given data:
 $a = 1$ m, $P_1 = 1.83$ N, $P_2 = 0.9$ kN, $P_3 = 0.45$ kN
 $\theta = 30^\circ$, $\delta = 45^\circ$

- Determine the resultant of the three forces P_1 , P_2 , and P_3 .

a) 3.05 kN c) 1.64 kN
 b) 2.45 kN d) 0.92 kN

- Determine the vertical reaction at B.

a) 1.67 kN c) 0.68 kN
 b) 2.45 kN d) 1.58 kN



- Determine the horizontal reaction at B.

a) 2.7 kN c) 2.4 kN
 b) 1.8 kN d) 0

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Ray Holden

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