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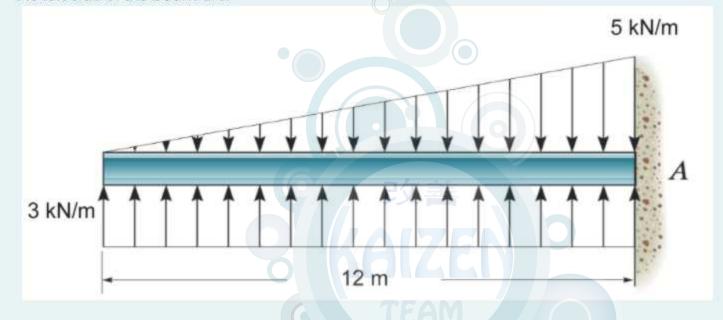
Question 1

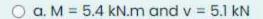
Not yet answered

Marked out of 10.00

P Flag question Time left 0:52:54

In this figure, the values for the bending moment and the shear force at x = 1, rheusarea nomethe left side of the beam are:





 \bigcirc b. M = 11.6 kN.m and v = 7.1 kN

 \bigcirc c. M = 1.4 kN.m and v = 5.1 kN

 \bigcirc d. M = 19.5 kN.m and v = 8.6 kN

O e. M = 5.4 kN.m and v = 2.8 kN

f, M = 1.4 kN.m and v = 2.8 kN







Finish attempt...

Question 2 Not yet

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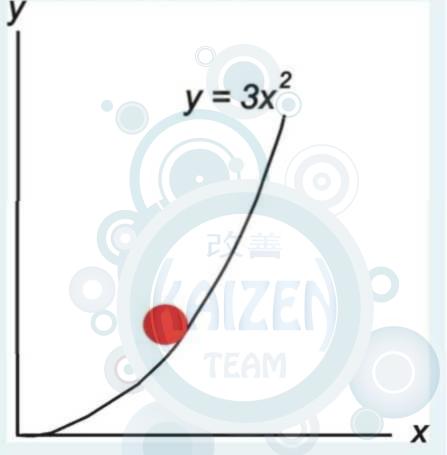
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question

10.00 f rlog A ball with no size is sliding down along the path shown in the figure. The speed of the ball was 15 m/s at an x position of 0.5 m. If you know that its speed increases by 30 m/s2, colculate the magnitude of the ball's acceleration at this instant.





 \bullet b. $a = 52.2 \text{ m/s}^2$

O c. a = 8.48 m/s²

 \bigcirc d. a = 305.1 m/s²

O e. a = 464.2 m/s2

Clear my choice







Question 3

Not yet

10.00

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question

answered

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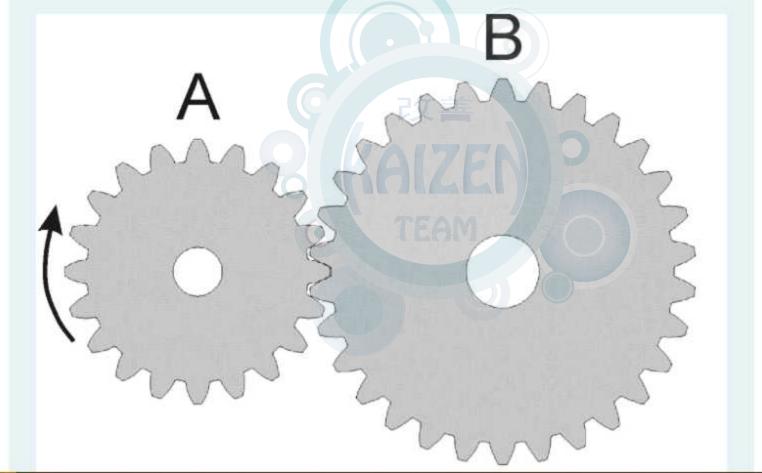






Time left 0:36:17

Gear A with a radius of 100 mm is attached to a motor that causes it to rotate at an angular acceleration of $\alpha_A = 1 + 0.003 \ \theta^2 \ rad/s^2$. Determine the angular velocity of gear B (having a radius of 255 mm) after it experiences an angular displacement $\theta_A = 30 \ rad$. Note that the initial angular velocity of gear A equals 20 rad/s.











Quiz navigation

Finish attempt ...













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Question 4

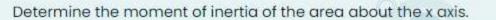
Not yet answered

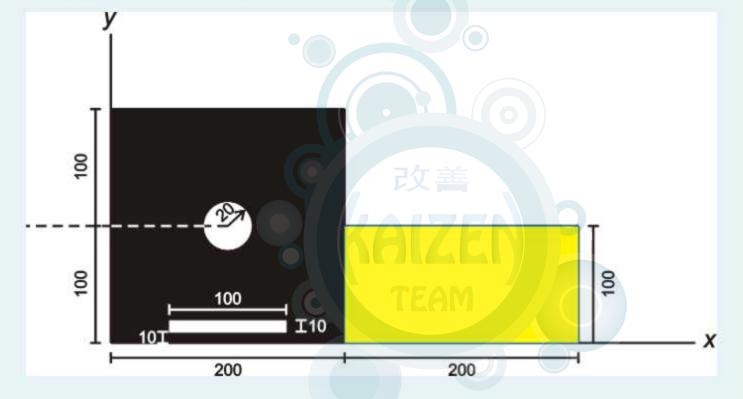
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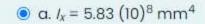
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question

Time left 0:10:48







$$\bigcirc$$
 b. $I_x = 7.6 (10)^8 \text{ mm}^4$

$$\bigcirc$$
 c. $I_x = 4.8 (10)^8 \text{ mm}^4$

$$\bigcirc$$
 d. $I_x = 5.49 (10)^8 \text{ mm}^4$















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Question 5

Not yet answered

Marked out of 10.00

P Flag question Time left 0:01:36

Two forces are trying to move the 30 kg table from rest. If FI = 50 N and F2 = 100 N in the directions shows, how far would the table move at the instant its speed becomes 1 m/s. Consider a kinetic coefficient of friction between the table and floor of 0.02.





$$\bigcirc$$
 b. $s = 0.29 \text{ m}$

0.00 - 0.62 m





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