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Second Term Test 2023

ගණිතය II
Mathematics II

11 ශ්‍රේණිය
Grade 11

පැය තුනයි
Three hours

- A කොටසෙන් ප්‍රශ්න පහක් ද, B කොටසෙන් ප්‍රශ්න පහක් ද තෝරාගෙන ප්‍රශ්න දහයකට පිළිතුරු සපයන්න.
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A කොටස

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- $y = x^2 + 4x - 2$ ශ්‍රිතයේ ප්‍රස්ථාරය ඇඳීමට පුළුල් අසම්පූර්ණ අගය වලටත් පහත දැක්වේ.

x	-5	-4	-3	-2	-1	0	1
y	3	-2	-5		-5	-2	3

- $x = -2$ වී y සොයන්න.
- X හා Y අන්තර් දිගේ කුඩා කොටු 10 ක් ඒකකය ලෙස පරිමාණය ගෙන ප්‍රස්ථාරය අඳින්න.
- ශ්‍රිතය සෘණව අඩුවන x හි අගය ප්‍රාන්තරය සොයන්න.
- සැරැටි ලක්ෂ්‍යයේ ඛණ්ඩාංක ලියා ශ්‍රිතයේ සමීකරණය $y = (x + a)^2 + b$ ආකාරයෙන් ලියන්න. මෙහි a හා b නියත වේ.
- $x^2 + 4x - 2 = 0$ හි විශාල මූලය සොයා $\sqrt{6}$ හි අගය පළමු දශමස්ථානයට සොයන්න.

Mathematics P2 Grade 11 20exempla

Katrin Zwirglmaier



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web where v is velocity of sound in m s^{-1} t is temperature in $^{\circ}\text{C}$ and p_0 is absolute pressure in pascals this equation is accurate to within 0.015 m s^{-1} between 0.001 and 95.126°C

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web λ wavelength in this experiment the velocity of sound in air is to be found by using tuning forks of known frequency the wavelength of the sound will be determined by making

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web v velocity the speed with which the wave propagates in a medium usually constant since speed times time gives distance traveled we can say the velocity of the wave

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web 1 v $\gamma r t$ m a constant for the particular gas r universal gas constant m molar mass kg mol⁻¹ t temperature measured in kelvin the measured speed of sound at

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web the speed of sound in air is affected by temperature and system errors the room temperature was 22c instead of 0c and this is the most likely cause of varying velocity

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