

Place all answers in your HW notebook. All final answers are on Kruzich's website. You should be checking your work! SHOW ALL WORK!!

1. Solve the proportion. $\frac{8}{12} = \frac{19}{p}$

2. A city is developing plans for a new community sports facility. Community members can submit suggestions for the new facility, along with basic scale drawings of their ideas. Julio wants to include a new 15- by 30-meter basketball court in the athletic center. He is submitting a scale drawing on an 8.5- by 11-inch sheet of paper. Which scale should Julio use to create as large a drawing as possible on the paper?

[A] $\frac{1}{4}$ in. = 1 m

[B] $\frac{3}{8}$ in. = 1 m

[C] $\frac{1}{2}$ in. = 1 m

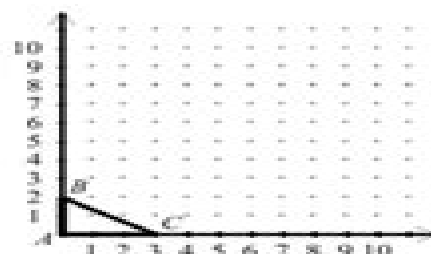
[D] $\frac{5}{16}$ in. = 1 m

3. $\triangle QPR \sim \triangle OMN$

Find a , b , and c if the perimeter of $\triangle OMN$ is 45 inches. All measurements are in inches.



4. Draw the image of $\triangle ABC$ after a dilation of scale factor 4.



5. Are $\triangle ABC$ and $\triangle FDE$ similar? Explain why or why not.



6. In $\triangle RST$, $RS = 10$ centimeters, $m\angle R = 48$, and $m\angle S = 30$.

In $\triangle UVW$, $UV = 30$ centimeters, $m\angle W = 48$, and $m\angle U = 30$. Which statement of similarity identifies the two similar triangles and gives the correct justification of their similarity?

[A] $\triangle RST \sim \triangle UVW$; AA similarity

[B] $\triangle RST \sim \triangle VWU$; SAS similarity

[C] $\triangle RST \sim \triangle WUV$; AA similarity

[D] The triangles are not similar.

Geometry Chapter 11 Answers Catawba County Schools

Lingjun Ying



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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc dc chopper the speed under the base velocity may be controlled by way of armature voltage manage technique mosfets are used for the switching operation of the chopper the gates of those mosfets are given pwm

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward breaking mode forward motoring mode reverse breaking or stop mode and reverse motoring mode a motor operates in two modes motoring and breaking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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may 11 2021 a four quadrants dc chopper fqdc has been developed to work with a series motor for the application of dc drive electric vehicle in previous work capable of operating in such driving conditions and offers several types of chopper operation modes such as driving and reverse regenerative and resistive braking generator mode field weakening

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive

2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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