

ARE YOU READY? PAGE 297

- E
- C
- A
- D
- B
- acute
- right
- acute
- obtuse
- $6^2 = 64$
- $(-12)^2 = 144$
- $\sqrt{49} = 7$
- $-\sqrt{36} = -6$
- $\sqrt{9 + 16} = \sqrt{25} = 5$
- $\sqrt{100 - 36} = \sqrt{64} = 8$
- $\sqrt{\frac{81}{25}} = \frac{\sqrt{81}}{\sqrt{25}} = \frac{9}{5}$
- $\sqrt{2^2} = 2$

18. $d + 5 < 1$



19. $-4 \leq w - 7$



20. $-3a \geq 6$



21. $-2 > \frac{m}{10}$
 $-20 > m$



22. Let p and q represent the following:
 p : Lines ℓ and m intersect.
 q : Lines ℓ and m are not parallel.
 Given: $p \rightarrow q$, and p . So by the Law of Detachment, q is true: Lines ℓ and m are not parallel.

23. Let p , q , and r represent the following:
 p : M is the midpoint of \overline{AB}
 q : $AM = MB$
 r : $AM = \frac{1}{2}AB$ and $MB = \frac{1}{2}AB$
 Given: $p \rightarrow q$ and $q \rightarrow r$. So by the Law of Syllogism,
 $p \rightarrow r$: If M is the midpoint of \overline{AB} , then $AM = \frac{1}{2}AB$ and $MB = \frac{1}{2}AB$.

5-1 PERPENDICULAR AND ANGLE BISECTORS, PAGES 300-306

CHECK IT OUT! PAGES 301-303

- 1a. $DC = EG$
 $DG = 14.6$

- b. Since $DG = GE$ and $f \perp \overline{DE}$, f is the \perp bisector of \overline{DE} by the Conv. of the \perp Bisector Thm.

$$EF = \frac{1}{2}DE$$

$$EF = \frac{1}{2}(20.8) = 10.4$$

- 2a. $WX = WZ$
 $WX = 3.05$

- b. Since $XW = ZW$, $\overline{XW} \perp \overline{XY}$, and $\overline{ZW} \perp \overline{ZY}$, \overline{YW} bisects $\angle XYZ$ by the Conv. of the \angle Bisector Thm.
 $m\angle XYZ = 2m\angle WYZ$
 $m\angle XYZ = 2(63^\circ) = 126^\circ$

3. By the Conv. of the \angle Bisector Thm., \overline{OS} bisects $\angle POR$.



Step 1 Graph \overline{PQ} .

The \perp bisector of \overline{PQ} is \perp to \overline{PQ} at its midpoint.

Step 2 Find the midpoint of \overline{PQ} .

$$\text{midpoint of } \overline{PQ} = \left(\frac{2 + (-2)}{2}, \frac{1 + (-4)}{2} \right) = (3, -1)$$

Step 3 Find the slope of the perpendicular bisector.

$$\text{slope of } \overline{PQ} = \frac{-4 - 1}{-2 - 2} = \frac{-5}{-4} = \frac{5}{4}$$

Since the slopes of \perp lines are opposite reciprocals, the slope of the \perp bisector is $-\frac{4}{5}$.

Step 4 Use point-slope form to write an equation.

The \perp bisector of \overline{PQ} has slope $-\frac{4}{5}$ and passes through $(3, -1)$.

$$y - y_1 = m(x - x_1)$$

$$y - (-1) = -\frac{4}{5}(x - 3)$$

$$y + 1 = -\frac{4}{5}(x - 3)$$

THINK AND DISCUSS, PAGE 303

- Yes; no, since $PY = QY = 3$, Y is the midpoint of \overline{PQ} , and thus by the def. of bisector, ℓ is a bisector of \overline{PQ} . If ℓ is the \perp bisector of \overline{PQ} , then PX would equal QX by the \perp Bisector Thm. However, $PX = 8.5$ and $QX = 8.4$, so ℓ is not the \perp bisector of \overline{PQ} .
- No, although $MJ = ML$, to apply the Conv. of the \angle Bisector Thm., you must know that $\overline{MJ} \perp \overline{KJ}$ and $\overline{ML} \perp \overline{KL}$.

Lesson 11 7 Problem Solving Holt Geometry Answers

Sabine Zange



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Thomas Williams Bicknell, Albert Edward Winship, Anson Wood Belding, 1895 Using History to Teach Mathematics Victor J. Katz, 2000-09-21 This volume examines how the history of mathematics can find application in the teaching of mathematics itself **MAA Notes** ,1983 **The Publishers Weekly** ,1910 *The Latest and Best of TESS* ,1991 Methods of Teaching Elementary School Mathematics Waldemar Olson, 1968 The Software Encyclopedia ,1986

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section learning objectives by the end of this section you will be able to do the following describe the structure and forces

present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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aug 28 2023 radioactivity property exhibited by certain types of matter of emitting energy and subatomic particles

spontaneously it is in essence an attribute of individual atomic nuclei radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements

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notes 323 nuclei and radioactivity physics module 7 atoms and nuclei z explain the growth and decay of radioactivity in a sample z calculate the half life and decay constant of a radioactive substance and z explain the uses of radioactivity in various fields 26 1 the atomic nucleus soon after the discovery of nucleus in an atom by rutherford in 1911

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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concepts essentials of nuclear physics table of isotopes fundamental nuclear models liquid drop shell model concept of radioactive decay radioactive decay modes α β γ and internal conversion and fission excited states in nuclei electromagnetic transitions angular correlations and polarisation

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as

radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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atomic physics deals with the atom as a system consisting of a nucleus and electrons nuclear physics deals with the nucleus as a system consisting of nucleons protons and neutrons the main difference is in the scale while the term atomic deals with 1Å 10 10 m where Å is an ångström according to anders jonas Ångström the term

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gauteng college of nursing will be responsible to ensure standardization of systems and procedures including standard operation procedures for staffing recruitment of students curriculum development and implementation targets and quality assurance gauteng college of nursing has received full accreditation from che sanc and registered by saqa

nursing learnership 2024 2025 in gauteng and how to apply - Jul 22 2023

oct 13 2023 the government of gauteng has been undergoing a learnership program annually for the past years we ve received numerous requests from aspirants on various platforms yearning for legit information about how to apply for nursing learnership program in gauteng and the guidelines for 2024 2025

gauteng department of nursing student intake - Apr 19 2023

jun 6 2023 applicants are invited to apply to the gauteng college of nursing to study towards the diploma in nursing in 2024 at one of the college campuses ann latsky campus chris hani baragwanath campus sg lourens campus bonalesedi campus to successfully apply and be considered for the training please take note of the following

[gauteng nursing intake 2024 apply here now unifornumtz](#) - Sep 12 2022

apr 5 2022 gauteng nursing intake 2024 the gauteng government invites applications for its 2024 nursing intake the bursary applications are open to eligible young south africans who are also residents of gauteng