



Section #1: Vocabulary (definitions) Use words and/or Draw

Angle bisector	Altitude	Perpendicular bisector
Median	Parallel lines	Perpendicular lines
Circumscribe	Inscribe	Congruent
Midpoint	Acute triangle	Obtuse triangle
Right triangle	Scalene triangle	Isosceles triangle

Section #2: Formulas/Equations/Theorems

Write each formula AND show work for each example: $(-2, 5)$ and $(6, 10)$

Ex. 1 Slope:

ans. $\frac{5}{8}$

Point-slope form of a line: _____

Ex. 2) Line passing through $(2, 3)$ and parallel to $y = 4x - 9$

Slope-intercept form of a line: _____

Ex. 3) Line passing through $(0, 3)$ and perpendicular to $y = 4x - 9$

Algebra 1 review: radicals

YOU MUST SHOW WORK to receive credit!

Ex. 4 Simplify $\sqrt{160}$

Ex. 5 Simplify $(\sqrt{10})(\sqrt{2})$

Ex. 6 $\sqrt{3} + \sqrt{48} + \sqrt{18}$

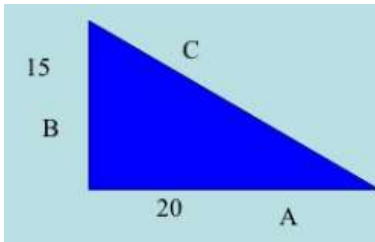
Ans. $4\sqrt{10}$

Ans. $2\sqrt{5}$

Ans. $5\sqrt{3} + 3\sqrt{2}$

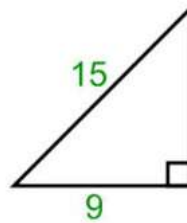
Pythagorean theorem: YOU MUST SHOW WORK to receive credit!

Ex. 7 Find the value of C .



Ans. $C = 25$

Ex. 8 Find the length of unknown leg.



Ans. 12

Distance and Midpoint formulas: USE your notes to write each correctly!!!!

Write the Distance formula:

Ex. 9 Find the distance from $(-2, 7)$ to $(4, 9)$ in simplest radical form.

Ans. $2\sqrt{10}$

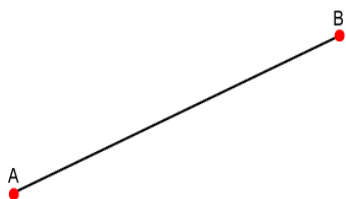
Write the Midpoint formula:

Ex. 10 Find the midpoint of $\overline{FX}$ with $F(-1, 8)$ and $X(11, 4)$

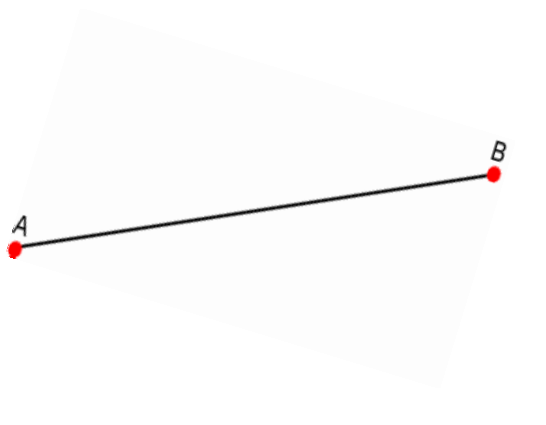
Ans. $(5, 6)$

Section #3: Key methods and concepts Need help? Mathopenref.com

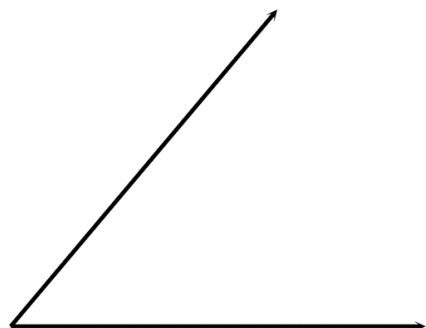
1) Copy segment AB.



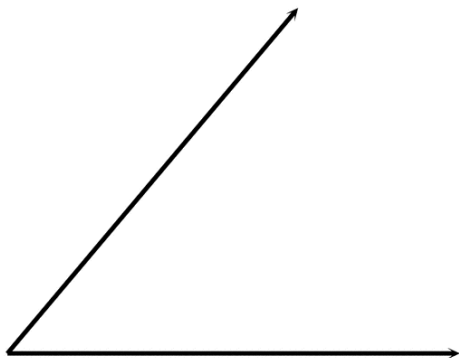
2) Bisect segment AB.



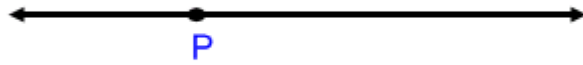
3) Copy the angle.



4) Bisect the angle.



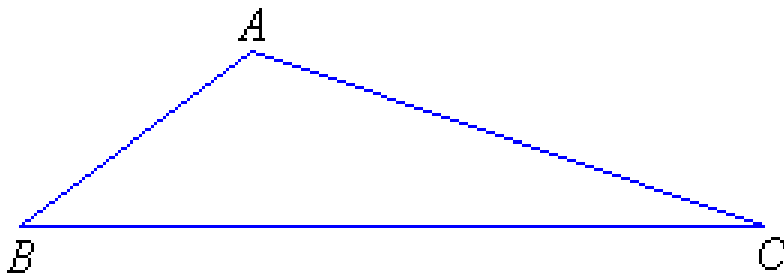
5) Construct a line through point P that is perpendicular to the given segment.



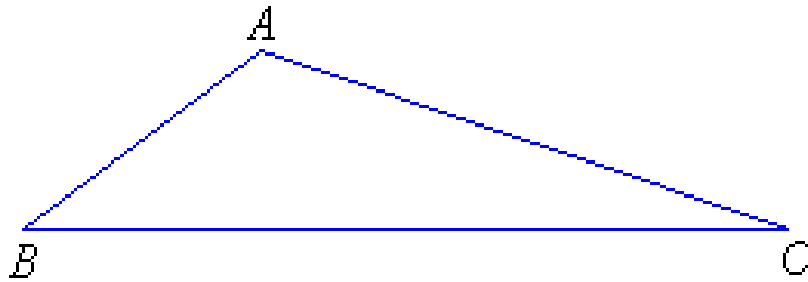
6) Construct a line through point P that is perpendicular to the given segment.



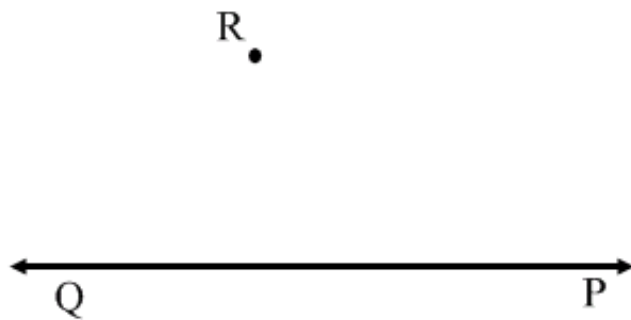
7) Construct the median from A to BC.



8) Construct the altitude from A to BC



9) Construct a line which passes through point R and is parallel to line QP.



10) Construct an isosceles triangle that is not equilateral.

11) Inscribe an equilateral triangle in a circle.

12) Inscribe a regular hexagon in a circle.