# Online Homework

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# Contents

# Vocabulary Review

*Short-answer, multiple-choice, and select-all questions about key vocabulary.*

**Question 1** *An* ***equilateral quadrilateral*** *is called a* $\boxed{?}$.

**Question 2** *An* ***equiangular quadrilateral*** *is called a* $\boxed{?}$.

**Question 3** *An* ***regular quadrilateral*** *is called a* $\boxed{?}$.

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**Question 4** *An line segment between two points on a circle is called a* $\boxed{?}$ *of the circle.*

**Question 5** *A* $\boxed{?}$ *measures* $180°$. *(Hint: Answer with two words.)*

**Question 6** *Two angles whose measures sum to* $180°$ *are said to be* $\boxed{?}$.

**Question 7** *Two angles whose measures sum to* $90^\circ$ *are said to be* $\boxed{?}$.

**Question 8** *Three (or more) points that lie on the same line are said to be* $\boxed{?}$.

**Question 9** *Three (or more) lines that lie on the same point are said to be* $\boxed{?}$.

**Question 10** *In a circle, the measure of an* $\boxed{?}$ *angle is* $\boxed{?}$ *the measure of the corresponding central angle. (Hint: For the second blank, answer with a word.)*

**Question 11** *An* ***altitude*** *in a triangle . . .*

***Multiple Choice:***

(a) *contains the midpoint of the side of a triangle and is perpendicular to that side.*

(b) *contains a vertex of a triangle and is perpendicular to the line containing the other side.*

(c) *contains a vertex of a triangle and the midpoint of the opposite side.*

(d) *contains a vertex and bisects that angle.*

(e) *none of these.*

**Question 12** *A **median** in a triangle . . .*

***Multiple Choice:***

(a) *contains the midpoint of the side of a triangle and is perpendicular to that side.*

(b) *contains a vertex of a triangle and is perpendicular to the line containing the other side.*

(c) *contains a vertex of a triangle and the midpoint of the opposite side.*

(d) *contains a vertex and bisects that angle.*

(e) *none of these.*

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**Question 13** *The **circumcenter** of a triangle is . . . [select all]*

***Select All Correct Answers:***

(a) *the point of concurrency of the medians.*

(b) *the point of concurrency of the angle bisectors.*

(c) *the point of concurrency of the perpendicular bisectors.*

(d) *the point of concurrency of the altitudes.*

(e) *the balance point for the triangle.*

(f) *the center in the triangle.*

(g) *the center of the incircle.*

(h) *the center of the circumcircle.*

(i) *equidistant from the sides of the triangle.*

(j) *equidistant from the vertices of the triangle.*

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**Question 14** *The* ***incenter*** *of a triangle is . . . [select all]*

***Select All Correct Answers:***

(a) *the point of concurrency of the medians.*

(b) *the point of concurrency of the angle bisectors.*

(c) *the point of concurrency of the perpendicular bisectors.*

(d) *the point of concurrency of the altitudes.*

(e) *the balance point for the triangle.*

(f) *the center in the triangle.*

(g) *the center of the incircle.*

(h) *the center of the circumcircle.*

(i) *equidistant from the sides of the triangle.*

(j) *equidistant from the vertices of the triangle.*

**Question 15** *The* ***centroid*** *of a triangle is . . . [select all]*

***Select All Correct Answers:***

(a) *the point of concurrency of the medians.*

(b) *the point of concurrency of the angle bisectors.*

(c) *the point of concurrency of the perpendicular bisectors.*

(d) *the point of concurrency of the altitudes.*

(e) *the balance point for the triangle.*

(f) *the center in the triangle.*

(g) *the center of the incircle.*

(h) *the center of the circumcircle.*

(i) *equidistant from the sides of the triangle.*

(j) *equidistant from the vertices of the triangle.*

**Question 16** *The* ***orthocenter*** *of a triangle is . . . [select all]*

***Select All Correct Answers:***

(a) *the point of concurrency of the medians.*

(b) *the point of concurrency of the angle bisectors.*

(c) *the point of concurrency of the perpendicular bisectors.*

(d) *the point of concurrency of the altitudes.*

(e) *the balance point for the triangle.*

(f) *the center in the triangle.*

(g) *the center of the incircle.*

(h) *the center of the circumcircle.*

(i) *equidistant from the sides of the triangle.*

(j) *equidistant from the vertices of the triangle.*

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**Question 17** *A* ***midsegment*** *in a triangle is . . . [select all]*

***Select All Correct Answers:***

(a) *a segment in the middle.*

(b) *a segment connecting the midpoints of two sides.*

(c) *parallel to a side of the triangle.*

(d) *perpendicular to a side of the triangle.*

(e) *also called a median.*