GEOMETRY
DR. PAUL L. BAILEY

Homework Check 0326
Friday, March 26, 2020

Problem 1. (Bonus - True/False)
Circle the letter corresponding to the best answer.

If the diagonals of a quadrilateral are perpendicular, then it is a kite.

(T) True **(F)** False

If a quadrilateral is a trapezoid, then its diagonals are congruent.

(T) True **(F)** False

If the diagonals of a quadrilateral are congruent, then it is a rectangle.

(T) True **(F)** False

If a quadrilateral is a kite, then it has exactly one diagonal which bisects opposite angles.

(T) True **(F)** False

A quadrilateral is a kite if and only if it exactly two pairs of consecutive congruent sides.

(T) True **(F)** False

If a quadrilateral is a kite, then it has exactly one pairs of opposite congruent angles.

(T) True **(F)** False

A trapezoid is isosceles if extending its non-parallel sides forms an isosceles triangle.

(T) True **(F)** False

A quadrilateral is a trapezoid if and only if it has exactly one pair of parallel sides.

(T) True **(F)** False

A trapezoid is isosceles if and only if its base angles are congruent.

(T) True **(F)** False

If a quadrilateral is a kite, then its diagonals are perpendicular.

(T) True **(F)** False