



2. Shari made this conjecture: "If the opposite angles of a quadrilateral are equal, then the figure is a parallelogram.

a. Use inductive reasoning to determine if you think Shari's conjecture is correct.

b. If you determine that Shari's conjecture is correct, try to explain why that is so.  
If you determine that Shari's conjecture is not correct, show a counter-example.

c. Write the converse of Shari's conjecture:

d. Repeat steps a and b from above for the converse.

3. David made this conjecture: "if a figure is an isosceles trapezoid, then the opposite angles are supplementary."

a. Use inductive reasoning to determine if you think David's conjecture is correct.

b. If you determine that David's conjecture is correct, try to explain why that is so.  
If you determine that David's conjecture is not correct, show a counter-example.

c. Write the converse of David's conjecture:

d. Repeat steps a and b from above for the converse.

4. Maddy made this conjecture: "If the diagonals of a quadrilateral are perpendicular, then the figure is a rhombus."

a. Use inductive reasoning to determine if you think Maddy's conjecture is correct.

b. If you determine that Maddy's conjecture is correct, try to explain why that is so.  
If you determine that Maddy's conjecture is not correct, show a counter-example.

c. Write the converse of Maddy's conjecture:

d. Repeat steps a and b from above for the converse.