

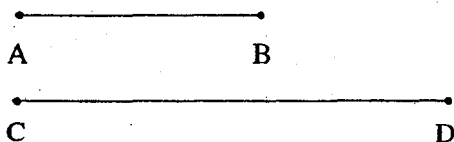
1. (1.4 #1c) Find the angle (the smaller of the two) between the hands of a clock at 1:45.

2. (3.2 #2) Convert to an "if-then" statement, then give the converse.

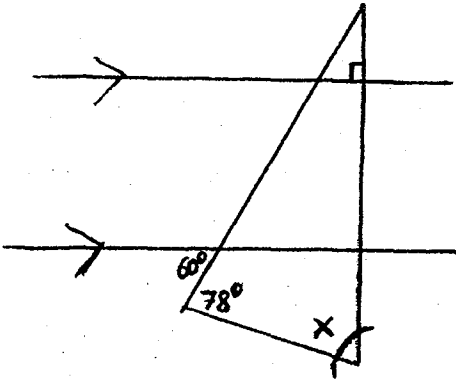
(a) All tall men play basketball.

(b) A square is a rhombus.

3. (2.4 #6) Using only straightedge and compass, construct an isosceles triangle with base \overline{AB} whose legs are congruent to segment \overline{CD} .



4. (Worksheet #8, #2b) Solve for the unknown angle x .

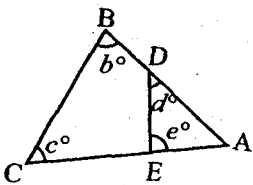


5. (Worksheet #11, #2a,b)

(a) Prove that the equation $x^2 + y^2 = 100$ has a solution.

(b) Prove that the equation $(x + y)^2 = x^2 + y^2$ is **not** true in general.

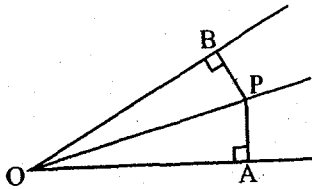
6. (4.1 #7) In the figure, prove that $d + e = b + c$.



7. (Worksheet #9, #3a) What are the interior angles of a stop sign?

8. (Worksheet #12, #2) Draw two different (non-congruent) tessellations of the plane by one given rhombus.

9. (4.3 #12) In the figure, $PA = PB$. Prove that OP bisects $\angle AOB$.



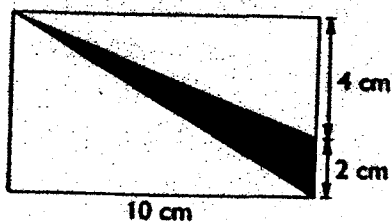
10. (Worksheet 13, #3)

(a) Give an example of two shapes with equal perimeters and different areas.

(b) Give an example of two shapes with equal areas and different perimeters.

11. (5.3 #5, #28d) Write a Teacher's Solution to the following problem.

Find the area of the shaded region.



12. (6.2 #12) Calculate the length QR in $\triangle PQR$.

