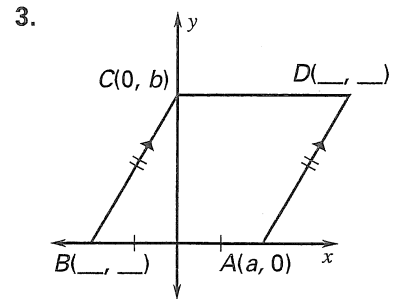
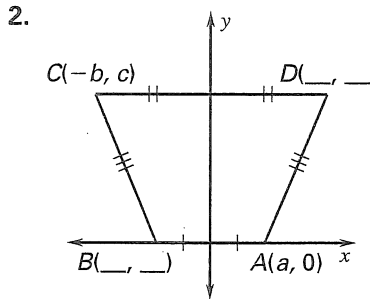
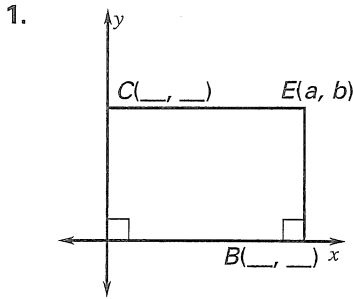


Practice C

For use with pages 243–250

Find the missing coordinates without using any new variables.



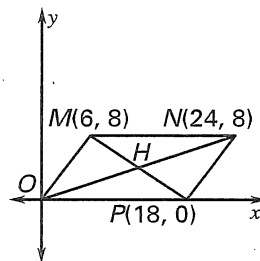
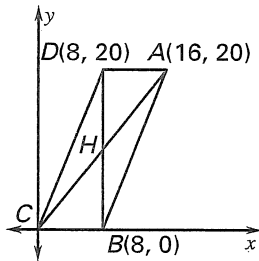
Place the figure in the coordinate plane and find the given information.

4. A right isosceles triangle with legs of a units; find the length of the hypotenuse.
5. A rectangle with a length of b units and a width of c units; find the length of a diagonal.
6. A square with a perimeter of $4n$ units; find the length of a diagonal.

Use the given information and diagram to find the coordinates of H .

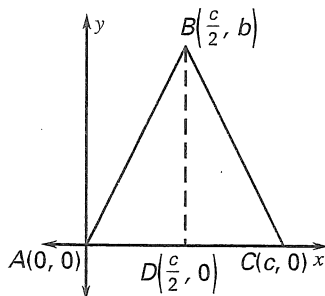
7. $\triangle ADH \cong \triangle CBH$

8. $\triangle MHN \cong \triangle PHO$



Write a paragraph proof.

9. **Given:** Coordinates of $\triangle ADB$ and $\triangle CDB$
Prove: $\triangle ABC$ is isosceles.



10. **Given:** Coordinates of $\triangle ABC$
 D is midpoint of \overline{AB} .
 E is midpoint of \overline{AC} .

Prove: $DE = \frac{1}{2}BC$

