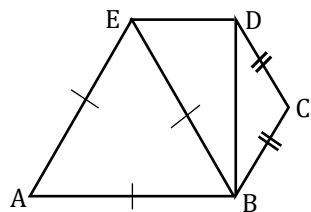


Geometry Review Chapter 5

Identify a triangle in the figure that appear to fit the given description.

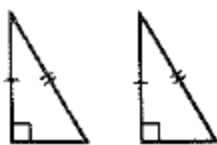


1. acute _____
2. obtuse _____
3. right _____
4. scalene _____
5. isosceles _____
6. equilateral _____

If it is possible to prove that the triangles are congruent, tell which congruence postulate or theorem you would use.



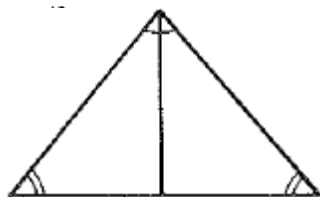
7. _____



8. _____

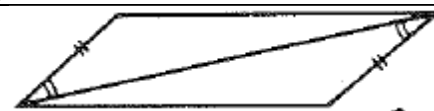


9. _____

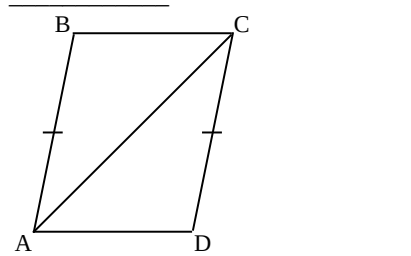


10. _____

11.



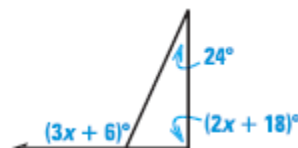
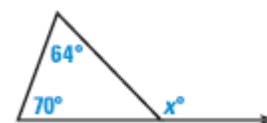
12.



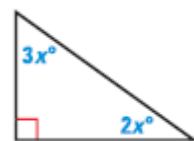
Find the value of x .

13. $x =$ _____

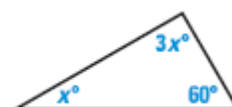
14. $x =$ _____



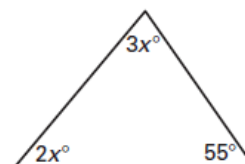
15. $x =$ _____



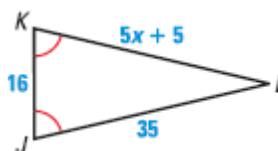
16. $x =$ _____



17. $x =$ _____



18. $x =$ _____

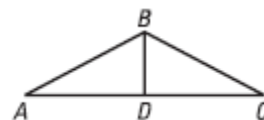


Place the figure in a coordinate plane in a convenient way. Give the coordinates of each vertex.

19. Square with side length a .

20. Parallelogram with base b and height h .

Write a proof.

GIVEN ► $\triangle ABC$ is isosceles with base $\overline{AC}$, $\overline{BD}$ bisects $\angle B$.**PROVE** ► $\triangle ABD \cong \triangle CBD$ 

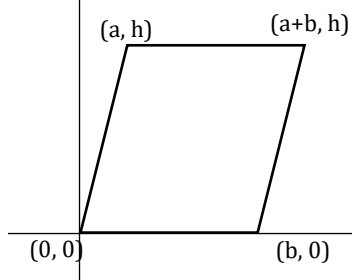
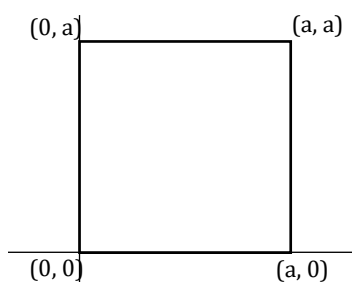
21.

Answers

1. $\triangle ABE$
2. $\triangle BCD$
3. $\triangle BDE$
4. $\triangle BDE$
5. $\triangle BCD$
6. $\triangle ABE$
7. ASA
8. HL
9. SSS
10. AAS
11. SAS
12. Not Possible
13. 134
14. 36
15. 18
16. 30
17. 25
18. 6

 $\overline{AB} \cong \overline{BC}$ (Definition of isosceles triangle) $\angle ABD \cong \angle CBD$ (Definition of angle bisector) $\overline{BD} \cong \overline{BD}$ (Reflexive) $\triangle ABD \cong \triangle CBD$ (SAS)

19.



20.

21. $\triangle ABC$ is isosceles, $\overline{BD}$ bisects $\angle B$
(Given)