## Study Guide **Centroids and Medians**

In  $\triangle QRS$ , RX = 48 and QW = 30. Find each length.



## **Pythagorean Theorem/Inequalities**

Do the following lengths make a triangle? If so, classify it by its angle mea

16. 12, 32, 31 Yes; acute 17. 9, 40, 41 Jes; right

18. Find the length of x. Give your answer in simplest radical form.



19. **[[] ERROR ANALYSIS** []] Below are two solutions for finding *x*. Which is incorrect? Explain the error.







21. GC is a midsegment. Find the length of GC and the angle measures  $\langle \text{GCD} \text{ and } \langle \text{GC} \rangle$ 



23. Isosceles and Equilateral Triangles



Hinge Theorem 22. Find a range of values for *z*.



## HL shortcut and CPCTC

24. Given: E is the midpoint of AD and BC. Prove:  $\triangle ABE \cong \triangle DCE$ 



**Given:**  $\overline{WX} \cong \overline{XY} \cong \overline{YZ} \cong \overline{ZW}$ <sup>25.</sup> **Prove:**  $\angle W \cong \angle Y$ 

