LT 2.3 Homework

Refer to the figure at the right.

9 If $\overline{AB} \cong \overline{AE}$, name two congruent angles. **∠ABE and ∠AEB**

10. If ∠ABF ≅ ∠AFB, name two congruent segments. **$\overline{AB}$ and $\overline{AF}$**

11. If $\overline{CA} \cong \overline{DA}$, name two congruent angles. **∠ACD and ∠ADC**

12. If ∠DAE ≅ ∠DEA, name two congruent segments. **$\overline{AD}$ and $\overline{DE}$**

13. If ∠BCF ≅ ∠BFC, name two congruent segments. **$\overline{BF}$ and $\overline{BC}$**

14. If $\overline{FA} \cong \overline{AH}$, name two congruent angles. **∠AFH and ∠AHF**
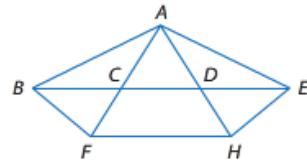
ıple 2   **Find each measure.**
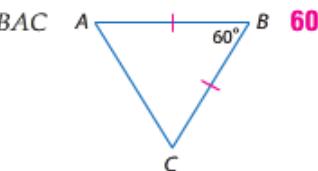
15. $m\angle BAC$ **60**

16. $m\angle SRT$ **65**
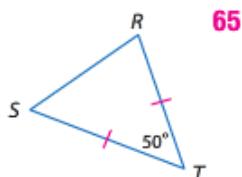
17. TR **4**
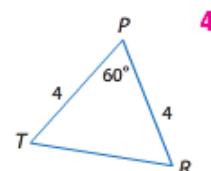
18. CB **3**
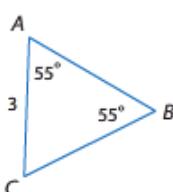
CCSS REGULARITY **Find the value of each variable.**

19 $2x + 11$ $6x - 9$ **$x = 5$**

20. $(3x + 6)°$ **$x = 13$**

21. $52°$ $(6y - 2)°$ $(4x + 20)°$ **$x = 11, y = 11$**

22. $60°$ $2y + 6$ 4 $5x - 3$ $60°$ **$x = 1.4, y = -1$**
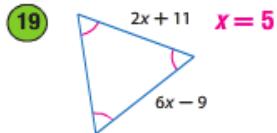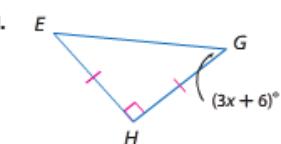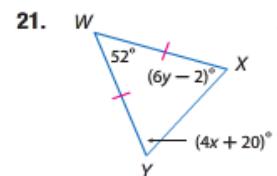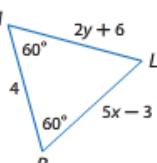
CCSS REGULARITY **Find each measure.**

29 $m\angle CAD$ **44**
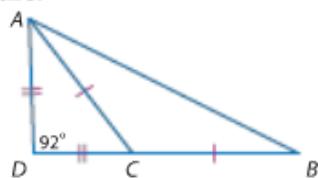
30. $m\angle ACD$ **44**

31. $m\angle ACB$ **136**

32. $m\angle ABC$ **22**

$92°$

Find the value of each variable.

38. 24 $x^2 + 5x$ **3**

39. $(y^2 - 62)°$ $(2y - 5)°$ **14**