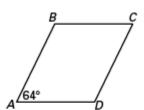
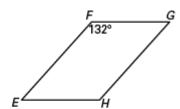
Find the measure of the indicated angle in the parallelogram.

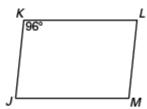
1. Find $m \angle B$.



Find m∠G.

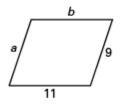


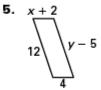
Find m∠M.

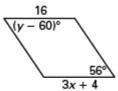


Find the value of each variable in the parallelogram.

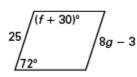
4.



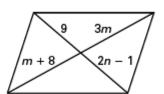


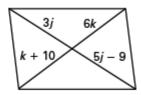


7.



8.





- **10.** In $\square WXYZ$, $m \angle W$ is 50 degrees more than $m \angle X$. Sketch $\square WXYZ$. Find the measure of each interior angle. Then label each angle with its measure.
- **11.** In $\square EFGH$, $m \angle G$ is 25 degrees less than $m \angle H$. Sketch $\square EFGH$. Find the measure of each interior angle. Then label each angle with its measure.

Find the indicated measure in $\square ABCD$.

m∠AEB

13. *m∠BAE*

m∠AED

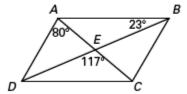
15. *m∠ECB*

m∠BAD

17. *m*∠*DCE*

m∠ADC

19. *m∠DCB*

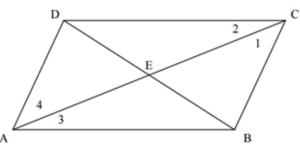


- 20) Determine the coordinates of the intersection of the diagonals of \Box FGHJ with vertices F(-2,4), G(3,5), H(2,-3), and J(-3,-4).
- 21) What are the coordinates of the intersection of the diagonals of parallelogram MNPR, with vertices M(-3,0), N(-1,3), P(5,4), and R(3,1)?

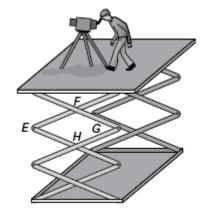
II. Complete each statement, using Parallelogram DCBA

- 4. If AD = 20, then BC = _____
- 5. If AB = 13, then DC =
- 6. If DB = 22, then DE = _____
- 7. If AE = 18, then $AC = _____$
- 8. If $m \angle ADC = 115^{\circ}$, then $m \angle ABC =$
- 9. If $m \angle DAB = 75^{\circ}$, $m \angle ADC =$
- If m∠AED= 72°, m∠DEC = _____
- 13. If AC = 30 and AE = 3x + 3,

then x = ____



- 10. If $m \angle 1 = 30^{\circ}$, then $m \angle 4 =$ _____
- 12. If $m \angle ADC = 130^{\circ}$, and $m \angle 1 = 35^{\circ}$, $m \angle 2 =$ _____
- 14. If DC = 6x + y, BC = 3x + 2y, AB = 25,
- and AD = 14, then x = ____ and y = ____
- 28. Movie Equipment The scissor lift shown at the right is sometimes used by camera crews to film movie scenes. The lift can be raised or lowered so that the camera can get a variety of views of one scene. In the figure, points E, F, G, and H are the vertices of a parallelogram.
 - **a.** If $m \angle E = 45^{\circ}$, find $m \angle F$.
 - b. What happens to ∠E and ∠F when the lift is raised? Explain.



29. In parallelogram *RSTU*, the ratio of *RS* to *ST* is 5:3. Find *RS* if the perimeter of □*RSTU* is 64.