

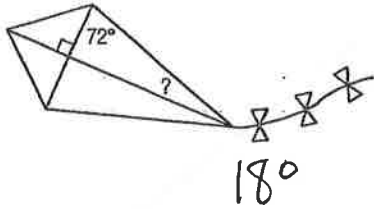
4-2 Practice

HW

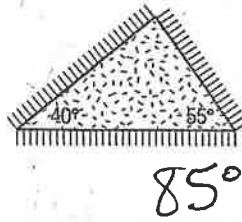
Angles of Triangles

Find the missing angle measures.

1.



2.

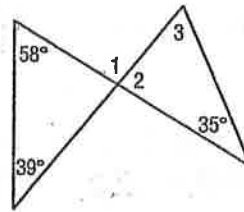


Find the measure of each angle.

3. $m\angle 1 = 97^\circ$

4. $m\angle 2 = 83^\circ$

5. $m\angle 3 = 62^\circ$



Find the measure of each angle.

6. $m\angle 1 = 104^\circ$

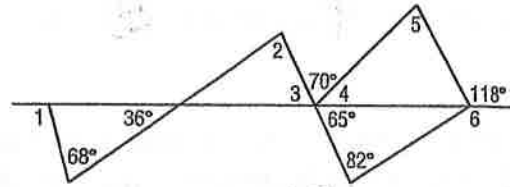
7. $m\angle 4 = 45^\circ$

8. $m\angle 3 = 65^\circ$

9. $m\angle 2 = 79^\circ$

10. $m\angle 5 = 73^\circ$

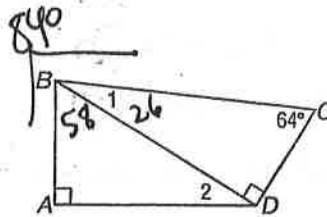
11. $m\angle 6 = 147^\circ$



Find the measure of each angle if $\angle BAD$ and $\angle BDC$ are right angles and $m\angle ABC = 84^\circ$.

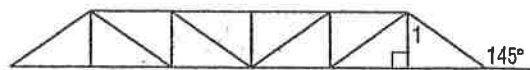
12. $m\angle 1 = 26^\circ$

13. $m\angle 2 = 32^\circ$



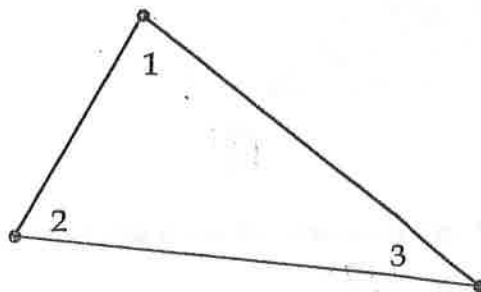
14. CONSTRUCTION The diagram shows an example of the Pratt Truss used in bridge construction. Use the diagram to find $m\angle 1$.

55°



Homework

- If $m\angle 1 = 28^\circ$ and $m\angle 2 = 67^\circ$, find $m\angle 3$. 85
- If $m\angle 1 = 107^\circ$ and $m\angle 3 = 37^\circ$, find $m\angle 2$. 36
- If $m\angle 2 = 34^\circ$ and $m\angle 3 = 67^\circ$, find $m\angle 1$. 79
- If $m\angle 1 = 16^\circ$ and $m\angle 2 = 35^\circ$, find $m\angle 3$. 129
- If $m\angle 3 = 88^\circ$ and $m\angle 2 = 47^\circ$, find $m\angle 1$. 45



- If $m\angle 1 = x + 30$, $m\angle 2 = x - 23$ and $m\angle 3 = 2x - 7$, find x and the value of each numbered angle.
 $x = \underline{45}$, $m\angle 1 = \underline{75}$, $m\angle 2 = \underline{22}$, $m\angle 3 = \underline{83}$ $4x = 180$

- If $m\angle 1 = 9x$, $m\angle 2 = 2x$ and $m\angle 3 = 7x$, find x and the value of each numbered angle.
 $x = \underline{10}$, $m\angle 1 = \underline{90}$, $m\angle 2 = \underline{20}$, $m\angle 3 = \underline{70}$

- If $m\angle 1 = 3x + 20$, $m\angle 2 = 2x - 25$ and $m\angle 3 = 5x + 10$, find x and the value of each numbered angle.
 $x = \underline{17.5}$, $m\angle 1 = \underline{72.5}$, $m\angle 2 = \underline{10}$, $m\angle 3 = \underline{97.5}$

$$10x + 5 = 180$$

$$10x = 175 \quad x = 17.5$$

- If $m\angle 1 = 72^\circ$ and $m\angle 3 = 25^\circ$, then $m\angle 5 = \underline{97^\circ}$.
- If $m\angle 2 = 61^\circ$ and $m\angle 3 = 21^\circ$, then $m\angle 4 = \underline{82^\circ}$.
- If $m\angle 1 = 80^\circ$ and $m\angle 2 = 73^\circ$, then $m\angle 6 = \underline{153^\circ}$.
- If $m\angle 4 = 103^\circ$ and $m\angle 3 = 18^\circ$, then $m\angle 2 = \underline{85^\circ}$.
- If $m\angle 5 = 99^\circ$ and $m\angle 3 = 32^\circ$, then $m\angle 1 = \underline{67^\circ}$.
- If $m\angle 2 = x + 10$, $m\angle 3 = x$ and $m\angle 4 = 100^\circ$, then $x = \underline{45}$.

$$2x + 10 = 100$$

$$2x = 90$$

$$x = 45$$

