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7th Grade Angles Worksheets

1. Find the complements of the following angles.

- i) 40°
- ii) 50°
- iii) 65°
- iv) 18°

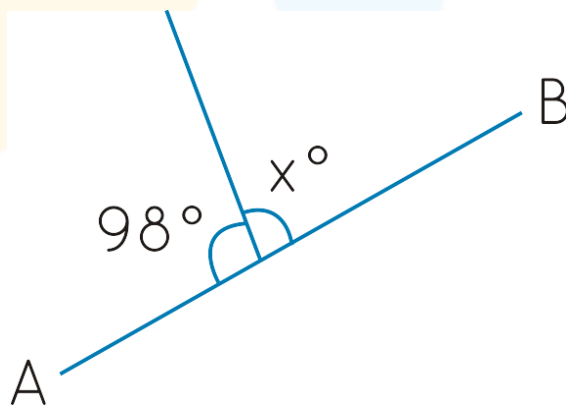
2. Find the supplements of the following angles.

- i) 1°
- ii) 60°
- iii) 145°
- iv) 18°

3. Write a pair of equal angles which are

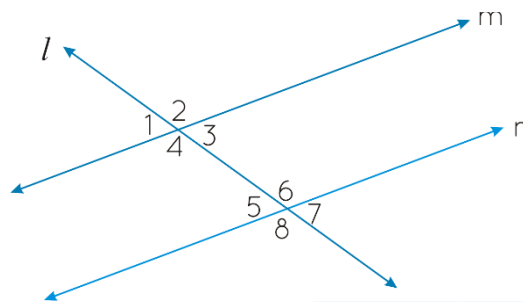
- i) complementary
- ii) supplementary

4. In the figures given below find the value of x° .



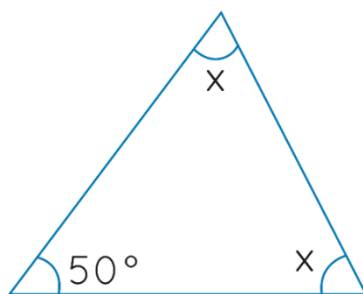
5. Two supplementary angles are such that the measure of one is twice the measure of the other. Find the angles.

6. In the given figure, line $m \parallel n$. A total of eight angles are formed that are labelled using numbers. List four pairs of equal angles.

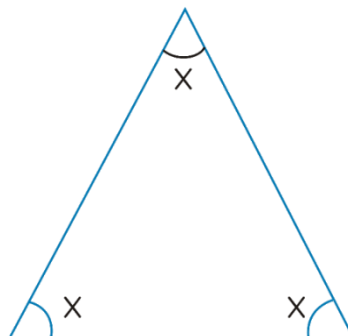


7. Find the missing angles in the given figures.

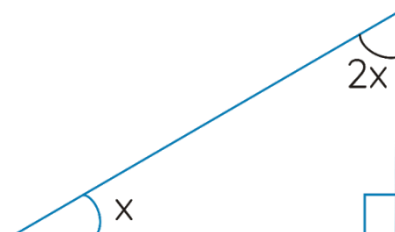
(i)



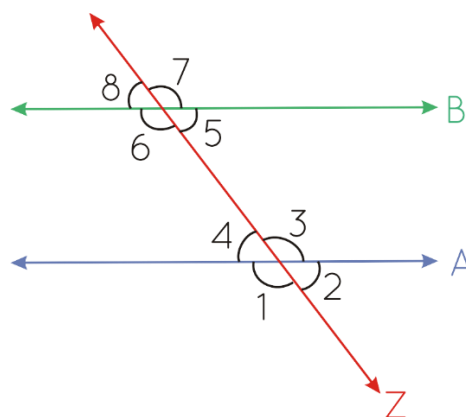
(ii)



(iii)



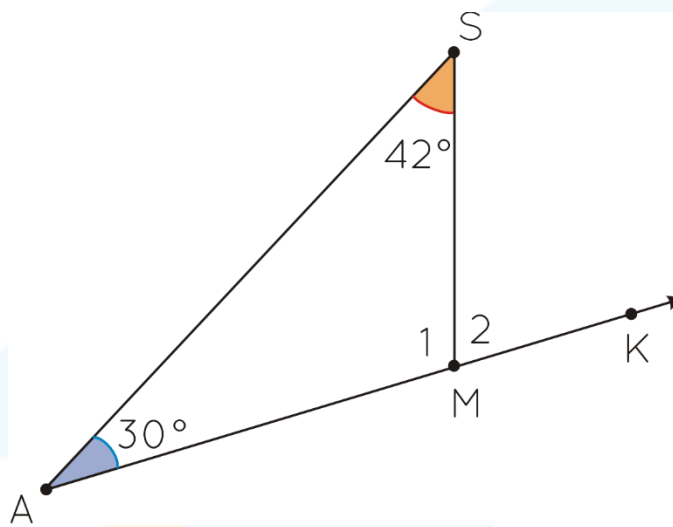
8. Check whether the given lines are parallel or not if the sum of measure of angle 7 and angle 2 is 180 degrees.



9. Fill in the blanks.

- i) The exterior angles of a polygon always add up to _____.
- ii) The interior angles of a triangle always add up to _____.
- iii) Each internal angle of a regular quadrilateral is _____.
- iv) Sum of all the exterior angles of an irregular hexagon is _____.

10. Work out angle 1 and 2 in the given figure.



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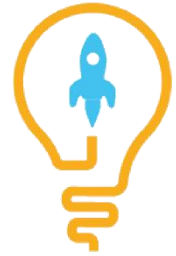
- Kirk Riley

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ANSWERS

<p>1. i) $40^\circ - 50^\circ$ ii) $50^\circ - 40^\circ$ iii) $65^\circ - 25^\circ$ iv) $18^\circ - 72^\circ$</p>	<p>6. 1 and 5 2 and 6 4 and 8 3 and 7</p>
<p>2. i) $1^\circ - 179^\circ$ ii) $60^\circ - 120^\circ$ iii) $145^\circ - 45^\circ$ iv) $18^\circ - 162^\circ$</p>	<p>7. $x = 65^\circ$ $x = 60^\circ$ $x = 30^\circ$</p>
<p>3. i) complementary: 45° and 45° ii) supplementary: 90° and 90°</p>	<p>8. Line A and B are parallel because angle 7 and angle 2 are supplementary.</p>
<p>4. $x = 82^\circ$</p>	<p>9. i) The exterior angles of a polygon always add up to 360°. ii) The interior angles of a triangle always add up to 180°. iii) Each internal angle of a regular quadrilateral is 90°. iv) Sum of all the exterior angles of an irregular hexagon is 360°.</p>
<p>5. 60° and 120°</p>	<p>10. $1 = 108^\circ$ $2 = 72^\circ$</p>

FUN FACT

1. Do parallel lines meet at some point? As some theorize, they meet at infinity.
2. The slopes of parallel lines are always equal.
3. Parallel lines cut by a transversal create 8 angles that have relationships. If you know the measurement of 1 of the angles and the relationship between angles, you can find the remaining 7 angles.

