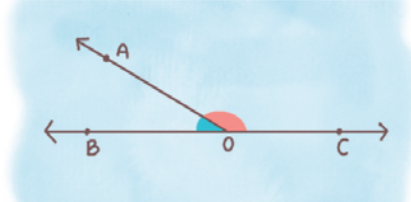


Name :

Class :



SUPPLEMENTARY ANGLES



Two angles are called supplementary when their sum adds up to 180 degrees.
Mathematically: $\angle BOA + \angle AOC = 180^\circ$

A) Find the supplement of each angle

1) 35°

Supplement of $35^\circ = 145^\circ$

3) 63°

Supplement of $63^\circ = 117^\circ$

5) 15°

Supplement of $15^\circ = 165^\circ$

2) 20°

Supplement of $20^\circ = 160^\circ$

4) 38°

Supplement of $38^\circ = 142^\circ$

6) 40°

Supplement of $40^\circ = 140^\circ$

B) State whether the given pairs are complementary or not

1) $75^\circ, 105^\circ$

Yes

3) $80^\circ, 28^\circ$

No

5) $70^\circ, 120^\circ$

No

2) $76^\circ, 24^\circ$

No

4) $118^\circ, 62^\circ$

Yes

6) $110^\circ, 70^\circ$

Yes

C) Find the other angle

1) If 1 and 2 are Supplementary angles, and $m\angle 1 = 75^\circ$; find $m\angle 2$.

$m\angle 2 = 105^\circ$

2) If 5 and 7 are Supplementary angles, and $m\angle 5 = 50^\circ$; find $m\angle 7$.

$m\angle 7 = 130^\circ$

3) If 8 and 9 are Supplementary angles, and $m\angle 8 = 8^\circ$; find $m\angle 9$.

$m\angle 9 = 172^\circ$