Constructing Obtuse Angles

In order to construct an obtuse angle, we can construct an acute angle first on a straight line then subtract from 180 to get the obtuse angle. For example; In order to construct the obtuse angle of 135°, we construct an acute angle of 45° on a straight line. The adjacent angle to the 45° will then be the obtuse angle of size 135°. Note we can construct the following obtuse angles;

$180° - 90° = 90°$

$180° - 45° = 135°$

$180° - 22.5° = 157.5°$

$180° - 11.25° = 168.75°$

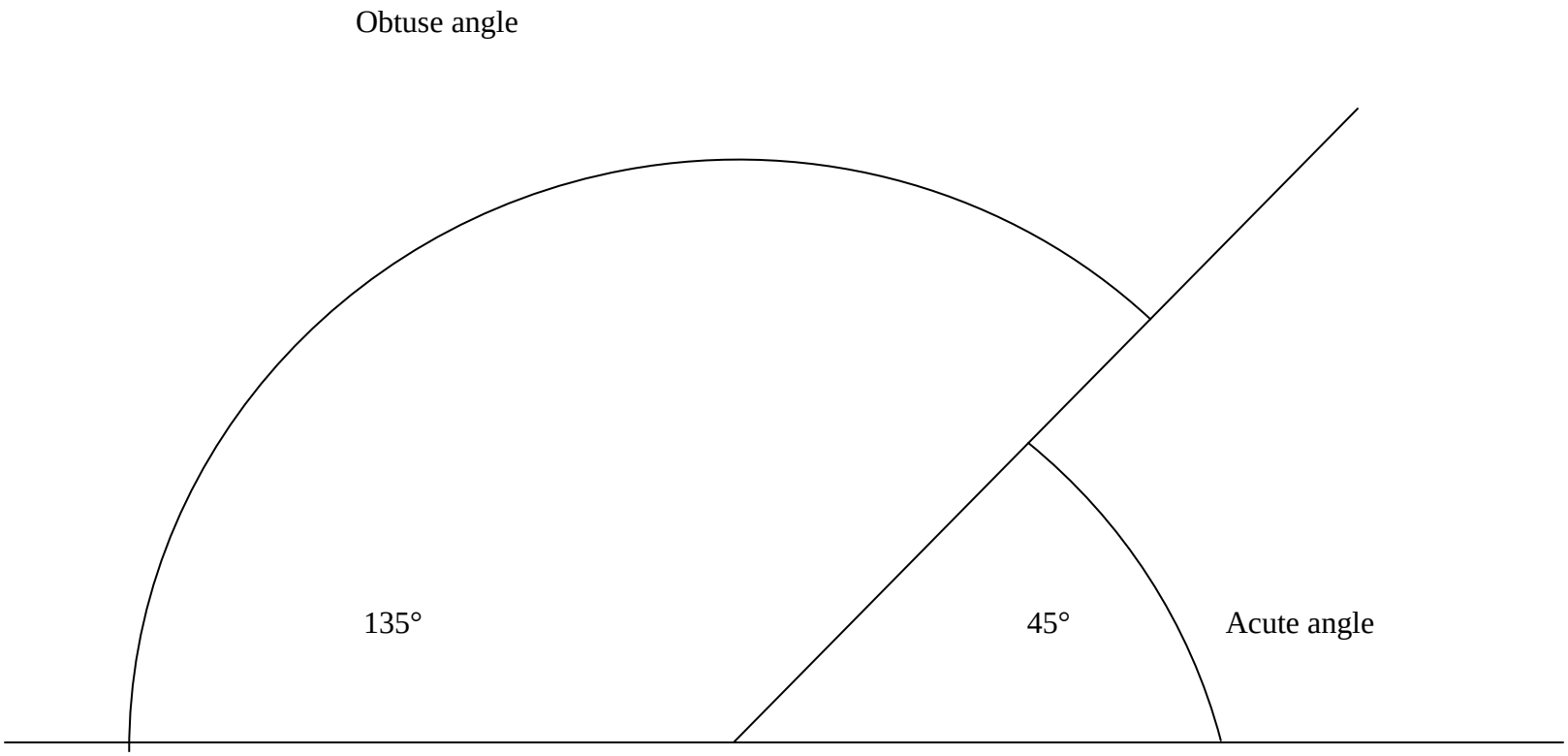
$180° - 60° = 120°$

$180° - 30° = 150°$

$180° - 15° = 165°$

$180° - 7.5° = 172.5°$

Note the illustration below


Obtuse angle
135°
45°
Acute angle