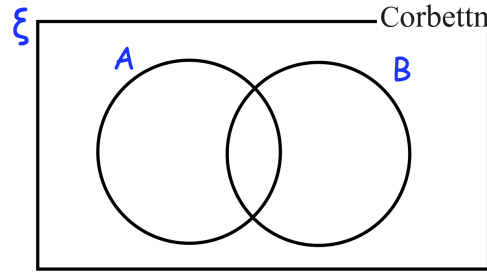




$\xi = \{\text{positive integers under } 30\}$

$A = \{\text{primes under } 30\}$

$B = \{2, 6, 7, 8, 9, 11, 15, 18, 21, 27\}$



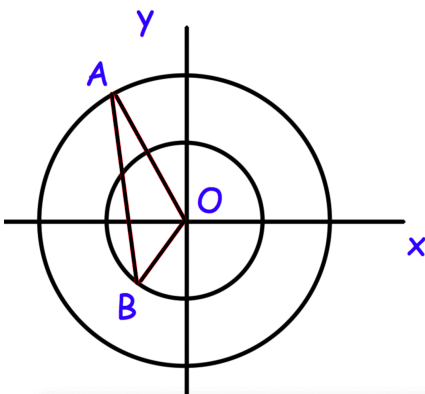
Find $P(A \cap B)$

Find the probability of A given B.

Given

$$y = \frac{4\sqrt{7}}{3}$$

Work out the value of y^3



A is a point on a circle.
B is a point on another circle with equation $x^2 + y^2 = 64$

radius of the smaller circle : radius of the large circle is 4 : 7

$AB = 19$

Work out the size of angle AOB