



A circle has equation

$$x^2 + y^2 = 8$$

Find the area of the circle.

$$x : y = 2 : 9$$

$$y : z = 4 : 1$$

Write  $z$  in terms of  $x$

Prove

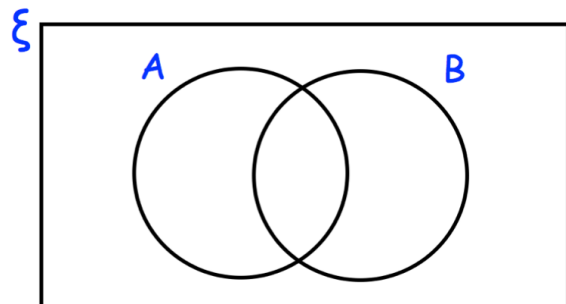
$$-3x^2 - 2x + (2x + 1)^2$$

is never negative

$$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16\}$$

$A$  = square numbers

$B$  = multiples of 4.



Which is less likely?

$P(\text{square number given multiple of 4})$

$P(\text{multiple of 4 given square number})$