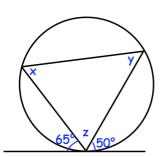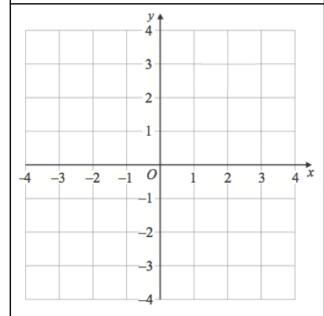**8th January**

Find x, y and z.

Show the region which satisfies

$x \geq 0$
$y < 2x + 3$
$y > x - 1$

A full water tank has sprung a leak. It loses 5% of its contents every minute.

Work out how long until the tank loses 40% of its contents.

y is directly proportional to the square of x.
When y = 24, x = 2.

Find the value of y when x = 4.