Corbettmaths

The curve y = x² + 4x − 12 is reflected in the y-axis.

Write down the equation of the reflected curve.

Out of 150 students, 95 had watched Movie A, 47 had watched Movie B and 33 had watched neither.

Draw a Venn diagram to represent this information.

A student who has watched Movie B is picked at random.

Find the probability that they have not watched Movie A.

Find the equation of the line that is perpendicular to 4x + y = 8 and passes through the point (1, 5)

Prove

$$(2n − 1)^3 + (3n + 1)(2n − 4)$$

is always odd.
n is a positive integer greater than 1.