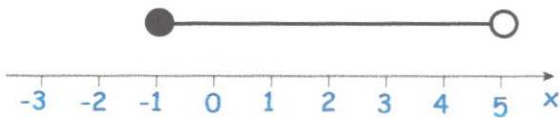**13th April**

Corbettmaths

Factorise

$x^2 + 3x - 10$

$(x + 5)(x - 2)$

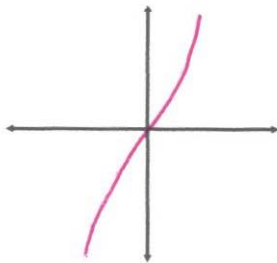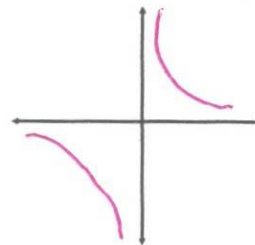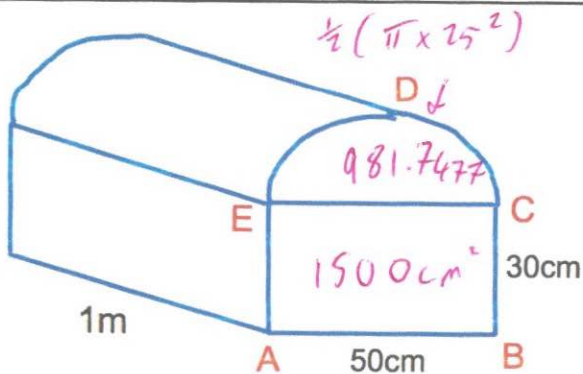
Factorise

$x^2 - 3x - 4$

$(x + 1)(x - 4)$

-3 -2 -1 0 1 2 3 4 5 x

Write the inequality shown

$-1 \leq x < 5$

Sketch $y = x^3$

Sketch $y = \dfrac{1}{x}$ where $x \neq 0$

$\frac{1}{2}(\pi \times 25^2)$

981.7477

$1500 cm^2$

D

E   C

30cm

1m

A   50cm   B

Shown above is a prism that is 1m long.

ABCDE is the cross-section of the prism.
ABCE is a rectangle and CDE is a semi-circle.

Calculate the volume of the prism.
Give your answer correct to 1 decimal place.

$2481.74... \times 100$

$248174.8 cm^3$