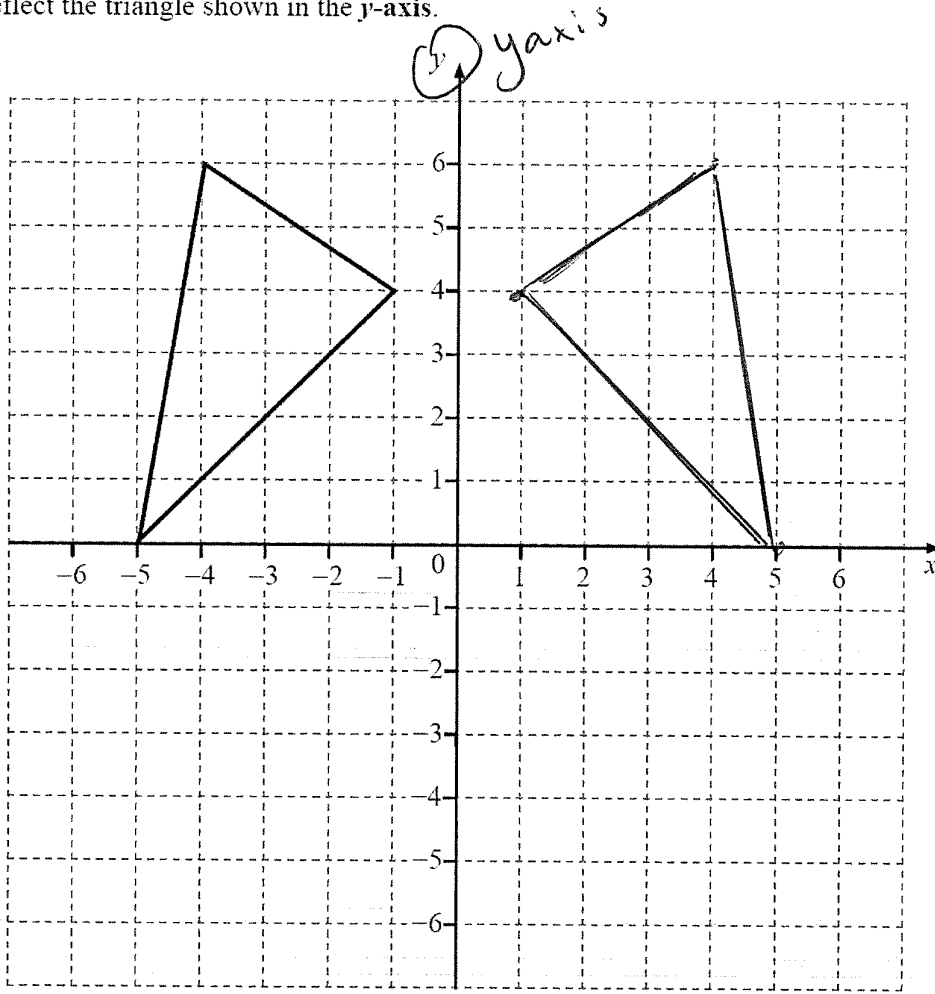


M7 = 24 days to go!

4 Reflect the triangle shown in the y -axis.



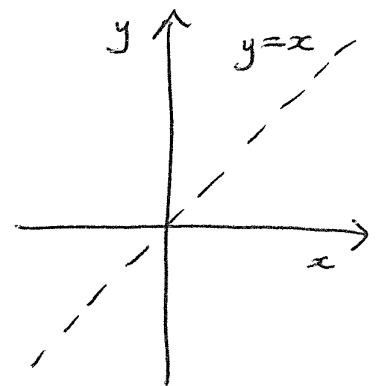
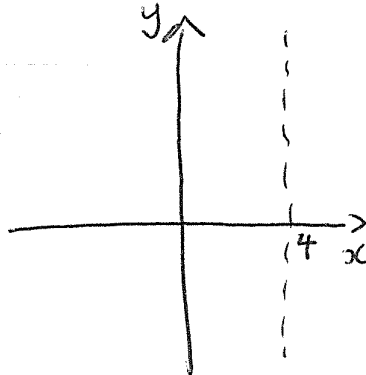
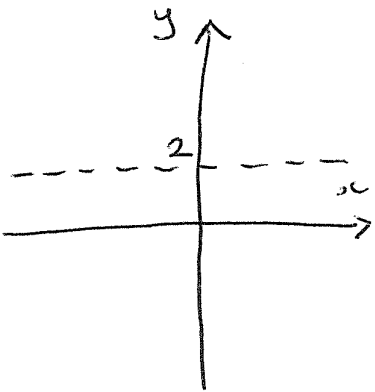
[1]

you also need to know lines like

$$y = 2$$

$$x = 4$$

$$y = x$$



10 (a) Write the binary number 10101 as a decimal number.

$$\begin{array}{cccccc} & & & \times 2 & & \times 2 \\ & & & \leftarrow & & \leftarrow \\ 16 & 8 & 4 & 2 & 1 & \\ 1 & 0 & 1 & 0 & 1 & \end{array}$$

Answer 21 [1]

$$16 + 4 + 1$$

(b) Write the decimal number 26 as a binary number.

$$\begin{array}{cccccc} 32 & 16 & 8 & 4 & 2 & 1 \\ 0 & 1 & 1 & 0 & 0 & 1 \end{array}$$

Answer 11001 [1]

Ans 11001

15 Find the value of

(a) $3^0 + 4^0$

$$3^0 = 1 \quad 4^0 = 1$$

$$1 + 1$$

Answer 2 [1]

(b) 2^{-3}

$$\frac{1}{2^3} = \frac{1}{8}$$

Answer $\frac{1}{8}$ [1]