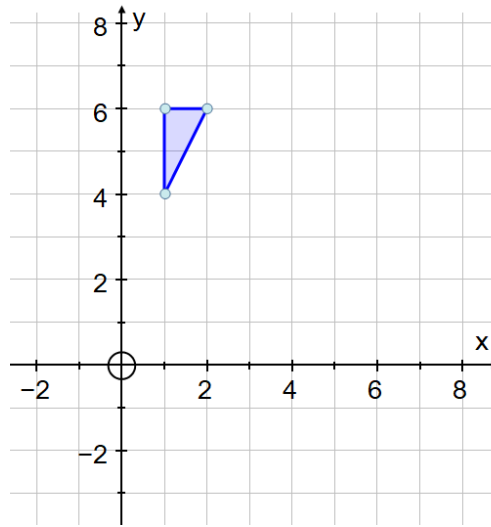


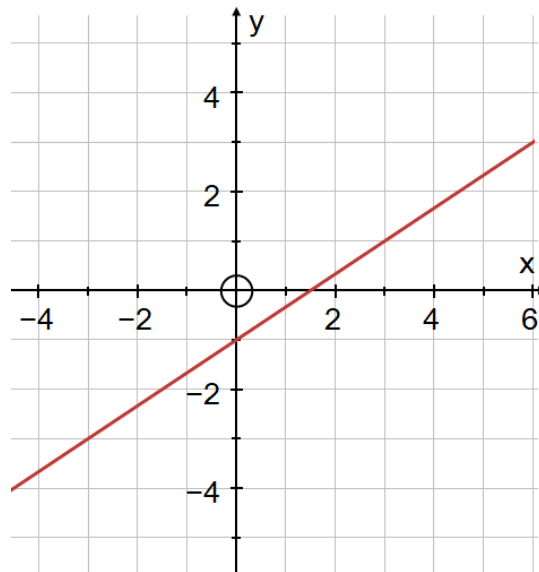
Interleaf 6

- 1) Round 78.0367 to 3 significant figures
- 2) Rotate shape A  $90^\circ$  clockwise around the point (3, 2)

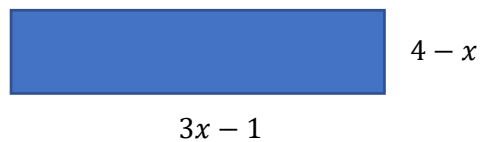
Write down the final position of all three vertices



- 3) Solve for  $x$              $8x - 1 = 5x + 7$
- 4) Find the gradient of the line below



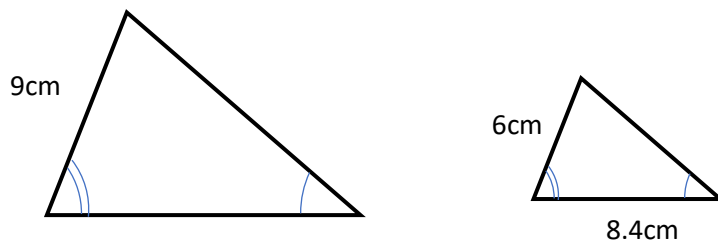
- 5) The perimeter of the rectangle below is 30cm



- a) Use this information to form an equation in terms of  $x$
- b) Solve this to find the value of  $x$

- 6) Expand and simplify             $(x - 3)^2$

- 7) Find the value of  $x$  for the two similar triangles below:



- 8) Convert  $0.\dot{1}4$  to a fraction in its simplest form

- 9) Estimate  $\frac{0.32 \times 39^2}{0.27}$

- 10) In an isosceles triangle, one of the angles is 60% of the sum of all three angles.  
Find the difference in size between the smallest and largest angle in the triangle.

Answers 1) 78.0 2) (5,4) (7,4) (7,3) 3)  $\frac{8}{3}$  4)  $\frac{2}{3}$  5a)  $2x + 3 = 15$  or  $4x + 6 = 30$  b) 6 6)  $x^2 - 6x + 9$   
7) 12.6 8)  $\frac{13}{90}$  9) 1600 10)  $72^\circ$