

Interleaf 6

1) For the following linear sequences find the missing terms indicated by ?

a) 11, 14, 17, 20, 23, ?, ...

b) 9, ?, ?, 21, 25, ...

c) -10, ?, ?, -19, -22, ...

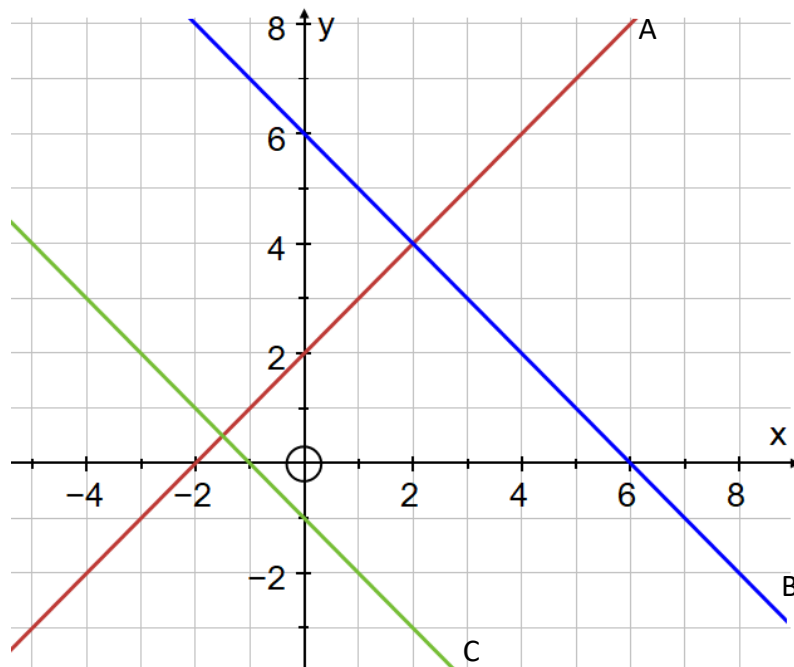
2) Evaluate

a) $\frac{5}{6} + 2\frac{1}{3}$

b) $9 + -4 - -2$

c) $2.03 - 0.915$

3) Write down the equation of the lines indicated with letters below:



4) Find the missing number indicated by a ?

a) $\frac{4}{5} + ? = 1\frac{1}{2}$

b) $-4 - ? = 2$

c) $0.45 \times ? = 450$

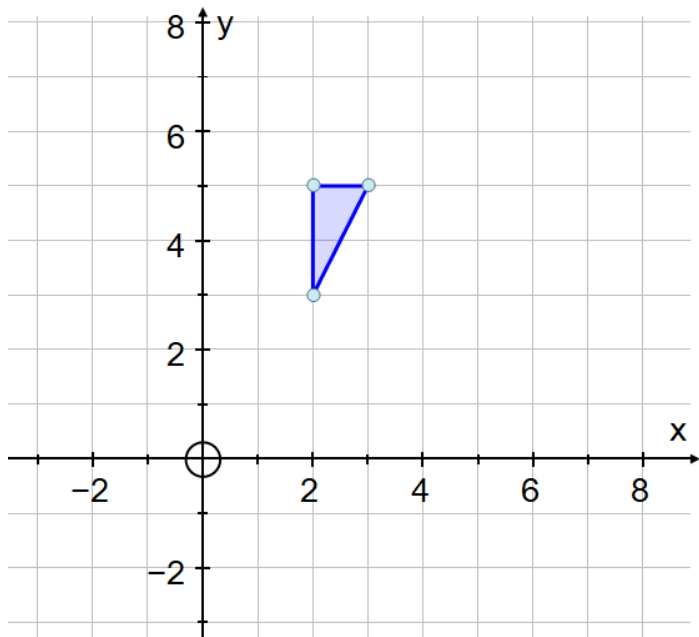
5) Draw a set of axes in your book. Draw the two lines below:

$$x = 2$$

$$x + y = 3$$

Name the point that lies on both lines

6) Triangle A is shown below:



- a) Translate triangle A by the vector $\begin{pmatrix} 3 \\ -1 \end{pmatrix}$ call this triangle B
- b) Translate triangle A by the vector $\begin{pmatrix} -2 \\ 0 \end{pmatrix}$ call this triangle C
- c) Write down the transformation that maps triangle B on to C

Answers 1a) 26 b) 13, 17 c) -13, -16 2a) $3\frac{1}{6}$ b) 7 c) 1.115

3) A $y = x + 2$ B $y + x = 6$ or $y = 6 - x$ 4a) $\frac{7}{10}$ b) -6 c) 1000 5) (2,1)

C $y + x = -1$ or $y = -x - 1$ 6c) translation by $\begin{pmatrix} -5 \\ 1 \end{pmatrix}$

