



Instructor: Dr. R.A.G. Seely

Quiz R1

Algebra & Functions (Maths 201-016)

1. Solve: $\frac{1}{4} \left(\frac{4}{6} - \frac{8}{3}x \right) = \frac{1}{5}x - \frac{7}{2}$

Answer:

$$x = 55/13$$

2. The company Real Exams gave a 42% discount on algebra exams, and the instructors bought this exam for \$87. What was the original cost of this exam?

(Hint: Sale price = Original price - Discount rate $\times$ Original price.)

Answer:

The original question was as above: the answer then is \$150.

However, the version I gave you had a typo (45%), and in that case the answer is $\$87/0.55 = \158.18 .

3. Solve the following system *by elimination*.

$$\begin{cases} 2x + 3y = 21 \\ -3x - 4y = -31 \end{cases}$$

Answer:

$$x = 9, y = 1$$

(These questions are from the May 2016 exam)