M8 =6 days to go!

Joe was changing the subject of the formula

$$A = \frac{3b}{\sqrt{c}} \qquad \text{to } c$$

Joe has written $A = \frac{3b}{\sqrt{c}}$

$$A = \frac{3b}{\sqrt{c}}$$

Line 1

$$A^2 = \frac{3b^2}{c}$$

$$A^2 = \frac{3b^2}{c}$$
 $(3b)^2 = 9b^2$

Line 2

$$A^2c=3b^2$$

Line 3

$$c = \frac{3b^2}{A^2}$$

(a) Identify the line where Joe made a mistake.

Answer line _____ [1]

(b) Write down the correct answer:

$$\frac{96^2}{\text{Answer } c = 4^2}$$
 [1]

Convert 0.34 to a fraction. Give your answer in its simplest form.



1 2 de J

 $\left(\frac{49}{100}\right)$

7 700

A is directly proportional to B^2 When A = 50, B = 5

- (a) Find a formula for A in terms of B.
- (b) Find the value of A when B = 3
- (c) Find the value of B when A = 200

$$R = kB^2$$
 $A = 2kB^2$
 $A = 2kB^2$

$$A = 200$$
 $200 = 2 \times B^{2}$
 $100 = B^{2}$

(2)