

M8 = 6 days to go!

6 Joe was changing the subject of the formula

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

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

Line 1 $A^2 = \frac{3b^2}{c}$

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:

Answer $c =$ _____ [1]

Convert $0.\dot{3}\dot{4}$ to a fraction.
Give your answer in its simplest form.

Evaluate

$$\left(\frac{49}{100}\right)^{-\frac{1}{2}}$$

.....
(2)

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 $A = 200$