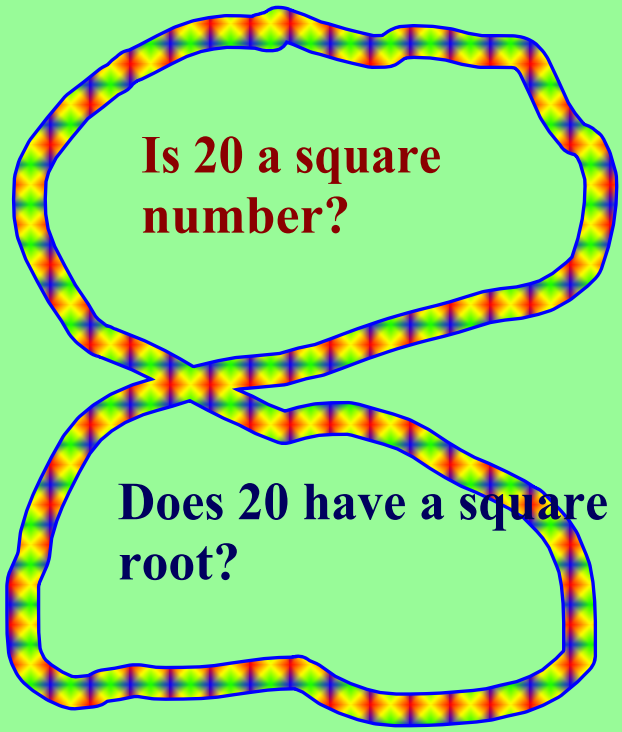


Without using your square root key find the square root of 20 to 2dp.

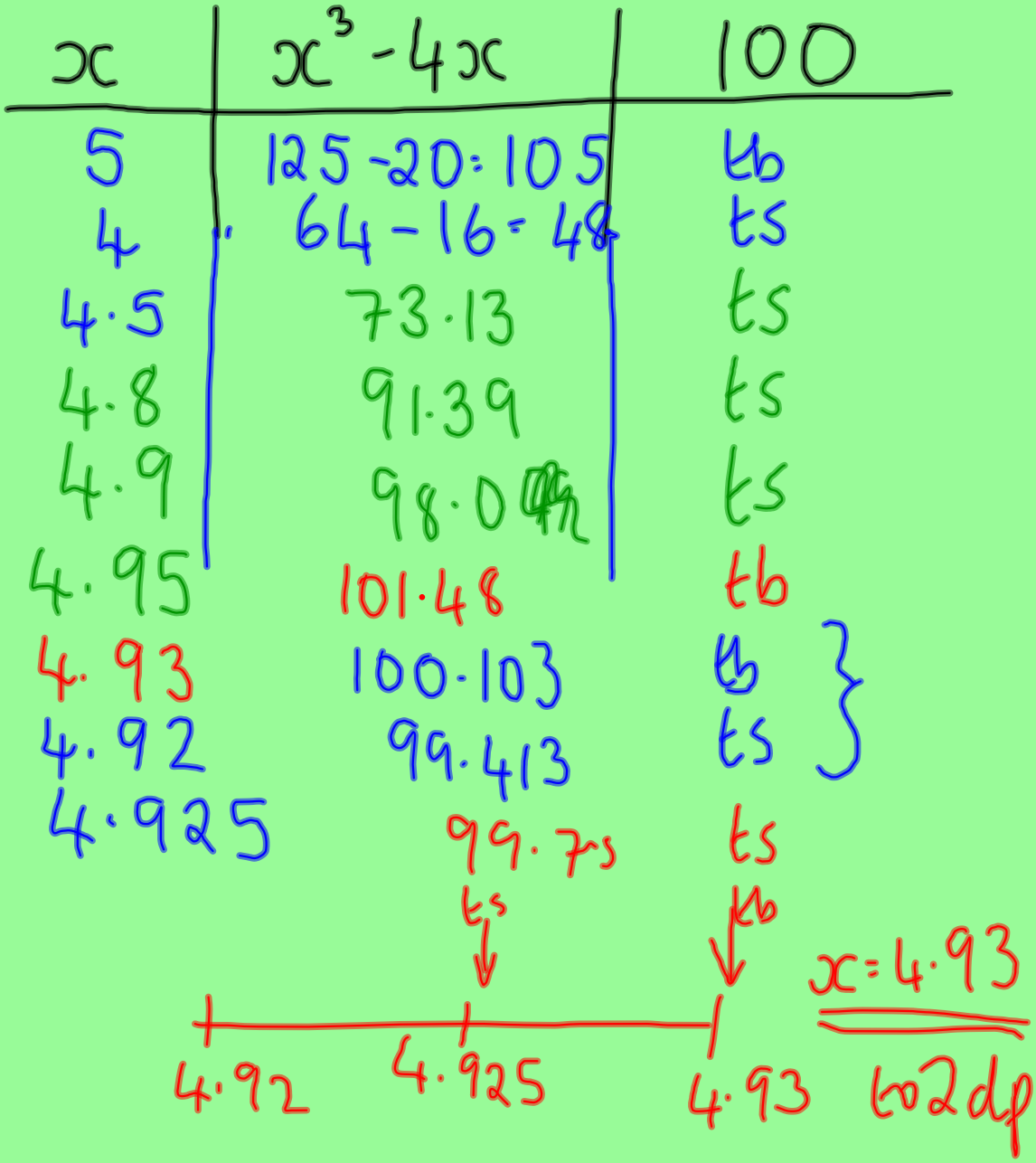
Find two numbers that differ by 1 and have a product of ....

1) 6
2) 56
3) 110
4) 182
5) 272
6) 462
7) 1190
8) 10100
9) 3192
10) 3540

1) 2 x 3=6
2) 8 x 7=56
3) 10 x11=110
4) 13 x14= 182
5) 16 x 17 = 272
6) 21x 22= 462
7) 34 x 35 = 1190
8) 100x 101=10100
9) 56 x 57= 3192
10) 59x 60 = 3540

Trial and Improvement

Solve the equation
$x^3 - 4x = 100$
to 2dp using trial and improvement.



Solve the equation
$x^3 + 2x^2 = 120$
to 2dp using trial and improvement.

$x = 4.35$ to 2dp

X	x^3+2x^2	120
4	96	too small
5	175	too big
4.5	131	too big
4.3	116	too small
4.4	123	too big
4.35	120.1	too big
4.34	119	too small
4.345	119	too small

Solve the equation
$x^2 - 2/x = 5$
to 2sf using trial and improvement.

x	$x^2-\frac{2}{x}$	5
3	8.3	too big
2	3.5	too small
2.5	5.45	too big
2.4	4.9	too small
2.45	5.18	too big
2.43	5.08	too big
2.41	4.9	too small
2.42	5.	

$x = 2.4$ to 2sf

Solve these equations using trial and improvement, to 2 dp.

$x^5 = 313$ $x = 3.15$

$5^x = 77$ $x = 2.70$

$x^x = 100$ 3.60

$n = 2.15$

The number n has 2 digits after the decimal point and n to the power 10 is 2110 to the nearest whole number. Find n.

Attachments

fibonnaci strips.xls