```
if cube < 0:
    guess = -guess
print('cube root of' + str(cube) + ' is ' + str(guess))
```

Approximate solutions

- good enough solution
- start with a good guess and increment by some small value
- keep guessing if |guess^3 - cube| >= epsilon
  for some small epsilon
- decreasing increment size → slower program
- increase epsilon → less accurate answer

Code:

```
>>> cube=27
>>> epislon=0.01
>>> guess=0.0
>>> increment=0.0001
>>> num_guess=0
>>> while abs(guess**3 - cube) >= epsilon and
    guess <= cube:
        guess += increment
        num_guess += 1
>>> print('num_guesses =', num_guesses)
>>> if abs(guess**3 - cube) >= epsilon:
    print('Failing on cube root of', cube)
else:
    print(guess, 'is close to the cube root of', cube)
```