

2024229

Question: 1

```
#include <iostream>
using namespace std;
int main()
{
    int num, power, answer;
    cout << "Enter the number whose power is to be found" << endl;
    cin >> num;
    cout << "Enter power to which number is to be raised" << endl;
    cin >> power;
    answer = pow(num, power);
    cout << "The answer is:" << ans;
    return 0;
}
```

Question: 2

```
#include <iostream>
using namespace std;
int main()
{
    float radius, area, circumference;
    cout << "Enter the radius of the sphere" << endl;
    cin >> radius;
    area = 4 * (3.14) * pow(radius, 2);
    circumference = (4/3) * 3.14 * pow(radius, 3);
    cout << "The area is:" << area << endl;
    cout << "The circumference is:" << circumference;
    return 0;
}
```


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Question: 3 -

```
#include <iostream>
#include <math.h>
using namespace std;
int main()
```

```
{
    float a, b, c, s;
    float area;
    cout << "Enter the first side of triangle:" << endl;
    cin >> a;
    cout << "Enter the second side of triangle:" << endl;
    cin >> b;
    cout << "Enter the third side of triangle:" << endl;
    cin >> c;
    s = (a + b + c) / 2;
    area = sqrt(s * (s - a) * (s - b) * (s - c));
    cout << "The area of the triangle is:" << area;
    return 0;
}
```

Question: 4 -

```
#include <iostream>
using namespace std;
int main()
```

```
{
    int years, months, day;
    cout << "Enter age in years:" << endl;    cin >> years;
    months = years * 12;
    days = months * 30;
    cout << "Age in months is" << months << endl;
    cout << "Age in days is" << days << endl;
    return 0;
}
```


202422a

Question: 5-

```
#include <iostream>
using namespace std;
int main ()
```

{

```
float km, CD70, GC125;
```

```
cout << "Enter the distance to be travelled in kilometers" << endl;
```

```
cin >> km;
```

```
CD70 = (1/50.2) * km;
```

```
GC125 = (1/40.5) * km;
```

```
cout << "Petrol required for CD70 is:" << CD70 << "litres" << endl;
```

```
cout << "Petrol required for GC125 is:" << GC125 << "litres" << endl;
```

```
return 0;
```

}

Question 6:

```
#include <iostream>
using namespace std;
int main()
{
    float basicsalary, h1, t1, m1, h2, t2, m2, grossinitial, grossfinal, diff;
    cout << "Enter basic salary:" << endl;
    cin >> basicsalary;
    h1 = 0.3 * basicsalary;
    t1 = 0.1 * basicsalary;
    m1 = 0.25 * basicsalary;
    grossinitial = basicsalary + h1 + m1 + t1;
    cout << "Gross salary initial is:" << grossinitial << endl;
    h2 = 0.4 * basicsalary;
    t2 = 0.15 * basicsalary;
    m2 = 0.35 * basicsalary;
    grossfinal = basicsalary + h2 + m2 + t2;
    cout << "Gross salary Final is:" << grossfinal << endl;
    diff = grossfinal - grossinitial;
    cout << "The difference between old and new gross salary is:" << diff;
    return 0;
}
```