

1. circle.m

```
function [area, cf] = circle(r)
    area = r.^2 * pi;
    cf = 2 * r * pi;
end
```

2. even_index.m

```
function E = even_index(A)
    E = A(2:2:end,2:2:end);
end
```

3. flip_it.m

```
function v = flip_it(v)
    v = v(end:-1:1);
end
```

4. top_right.m

```
function A = top_right(A,n)
    A = A(1:n,end-n+1:end);
end
```

5. peri_sum.m

```
function s = peri_sum(A)
    B = A(2:end-1,2:end-1);
    s = sum(A(:)) - sum(B(:));
end
```

OR

```
function s = peri_sum(A)
    B = A(2:end-1,2:end-1);
    s = sum(A(:)) - sum(B(:));
end
```

6. light_speed.m

```
function [t m] = light_speed(km)
    t = km / 3e5 / 60;
    m = km / 1.609;
end
```

7. accelerate.m

```
function a = accelerate(F1,F2,m)
    F = F1 + F2;
    f = sqrt(sum(F.^2));
    a = f/m;
end
```

8. income.m

```
function s = income(rate,price)
    s = 6 * 2 * 8 * rate * price';
end
```

OR

```
function s = income(rate,price)
    s = 6 * 2 * 8 * sum(rate .* price);
end
```