**public** **class** Arie {

**public** **static** **void** main (String args[]) {

**int** inaltimeapar = 3; **int** lungimeapar = 6;

**int** latimeadrept = 4; **int** lungimeadrept = 8;

**int** laturapatrat = 5;

**int** bazamaretrapez = 4; **int** bazamicatrapez = 7; **int** inaltimeatrapez = 4;

**int** aoarecare = 4; **int** boarecare = 5; **int** coarecare = 7; **int** poarecare = 8;

**int** catetaa = 6; **int** catetab = 8;

**int** laturaechilaterala = 5;

Patrulatere test = **new** Patrulatere();

System.***out***.println("aria paralelogram este:"+test.aria(inaltimeapar, lungimeapar));

System.***out***.println("aria dreptunghi este:"+test.aria1(latimeadrept, lungimeadrept));

System.***out***.println("aria patrat este:"+test.aria2(laturapatrat));

System.***out***.println("aria trapez este:"+test.aria3(bazamaretrapez, bazamicatrapez, inaltimeatrapez));

Triunghiuri testt = **new** Triunghiuri();

System.***out***.println("aria triunghi oarecare este:"+testt.ariaoarecare(aoarecare, boarecare, coarecare, poarecare));

System.***out***.println("aria triunghi dreptunghic este:"+testt.ariatrdrept(catetaa, catetab));

System.***out***.println("aria triunghi echilateral este:"+testt.ariatrechilateral(laturaechilaterala));

}

}

**public** **class** Patrulatere {

**public** **double** aria(**int** inaltimeapar, **int** lungimeapar) {

**return** inaltimeapar\*lungimeapar;

}

**public** **double** aria1(**int** latimeadrept, **int** lungimeadrept) {

**return** latimeadrept\*lungimeadrept;

}

**public** **double** aria2(**int** laturapatrat) {

**return** laturapatrat\*laturapatrat;

}

**public** **double** aria3(**int** bazamaretrapez, **int** bazamicatrapez, **int** inaltimeatrapez) {

**return** (bazamaretrapez+bazamicatrapez)/(inaltimeatrapez/2);

}

}

**public** **class** Triunghiuri {

**public** **double** ariaoarecare(**int** aoarecare, **int** boarecare, **int** coarecare, **int** poarecare) {

**return** Math.*sqrt*(poarecare\*(poarecare-aoarecare)\*(poarecare-boarecare)\*(poarecare-coarecare));

}

**public** **double** ariatrdrept(**int** catetaa, **int** catetab) {

**return** Math.*sqrt*(Math.*pow*(catetaa, 2)\*Math.*pow*(catetab, 2));

}

**public** **double** ariatrechilateral(**int** laturaechilaterala) {

**return** (Math.*pow*(laturaechilaterala, 2)\*Math.*sqrt*(3))/4;

}

}