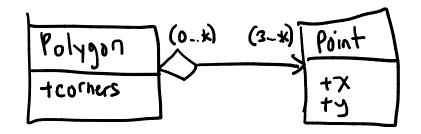
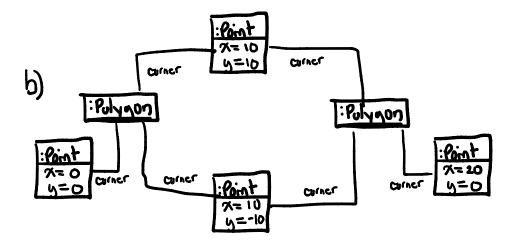
1. a)



Each point can be part of 0 or more polygons. Each polygon has 3 or more points.



- 2. a)
- 1. * (A magazine can have any number of subscribers)
- 2. * (A person can subscribe to any number of magazines)
- 3. 1 (Each subscription has 1 person.)
- 4. * (A person can have any number of subscriptions)
- A scenario would be when a person is subscribed to a magazine but has not yet made any payments.
- **c)** 333
- **3.** Figure 2 is the most appropriate. Students do not own addresses they can exist independently, but students must have an address.

```
class Student
{
    std::string _name;
    StudentNumber _number;
    Address* _address;
public:
    Student(std::string name, Address* address);
};
```

Student::Student (std::string name, Address* address) : _name(name), _address(address) {}

```
class Course{
     int number;
     int numStudents;
     Student **students;
public:
     Course(int number);
     void enroll(Student* student);
}
class Student
     std::string _name;
     StudentNumber _number;
public:
     Student(std::string name);
     void take(Course*);
};
Student::Student (std::string name) : _name(name) {}
void Student::take(Course* course) {
     course->enroll(this);
}
Course::Course(int number) : number(number) {}
void Course::enroll(Student* student) {
     if (student) {
           students[numStudents] = student;
           ++enrolled;
     }
```

}