

## CS 31 – Exam Review Problem(s) – RP1 – Out Sept. 6, Due Before Class Sept. 8

1. In class, we noted that GLSL shaders interfacing with Javascript in WebGL will only draw polygons that are triangles. We used that in the *square* demonstration program to draw a square composed of two triangles drawn with `TRIANGLE_FAN`. Suppose instead that we had used `TRIANGLE_STRIP` and re-ordered to vertices to take that into account. How many of the following four vertex re-orderings would have successfully produced a square with `TRIANGLE_STRIP`?

```
1      var vertices = [  
2          vec2( -0.5, -0.5 ),  
3          vec2( -0.5,  0.5 ),  
4          vec2(  0.5, -0.5 ),  
5          vec2(  0.5,  0.5 )  
6      ];
```

```
1      var vertices = [  
2          vec2( -0.5, -0.5 ),  
3          vec2(  0.5, -0.5 ),  
4          vec2( -0.5,  0.5 ),  
5          vec2(  0.5,  0.5 )  
6      ];
```

```
1      var vertices = [  
2          vec2(  0.5, -0.5 ),  
3          vec2( -0.5, -0.5 ),  
4          vec2( -0.5,  0.5 ),  
5          vec2(  0.5,  0.5 )  
6      ];
```

```
1      var vertices = [  
2          vec2( -0.5,  0.5 ),  
3          vec2(  0.5,  0.5 ),  
4          vec2(  0.5, -0.5 ),  
5          vec2( -0.5, -0.5 )  
6      ];
```

- (a) None would work
- (b) 1
- (c) 2
- (d) 3
- (e) All 4 would work