AL₆

Find the edge normal and the edge direction.

let's consider these points as vertices of a triangle in a 2D space, so

(0, 255)

(255, 0)

(0,0)

In this case, the edges of the triangle are:

Edge 1: From (0, 255) to (255, 0)

Edge 2: From (255, 0) to (0, 0)

Edge 3: From (0, 0) to (0, 255)

Next, let's find the direction vectors of each edge:

 $(a \cdot b)(a,b)(a,b)(a,b)$ has a normal (b,-a)(b,-a)(b,-a) or (-b,a)(-b,a)(-b,a).

Edge 1 direction vector: (255-0.0-255)=(255,-255)(255-0.0-255)=(255,-255)(255-0.0-255)=(255,-255)

Edge 2 direction vector: (0-255,0-0)=(-255,0)(0-255,0-0)=(-255,0)(0-255,0-0)=(-255,0)

Edge 3 direction vector: (0-0.255-0)=(0.255)(0-0.255-0)=(0.255)(0-0.255-0)=(0.255)

SO,

Edge 1 (from (0, 255) to (255, 0)):

• Direction: (255,-255)(255,-255)(255,-255)

• Normal: (255,255)(255, 255)(255,255) or (-255,-255)(-255, -255)(-255,-255)

Edge 2 (from (255, 0) to (0, 0)):

• Direction: (-255,0)(-255,0)(-255,0)

• Normal: (0,-255)(0,-255)(0,-255) or (0,255)(0,255)

Edge 3 (from (0, 0) to (0, 255)):

Direction: (0,255)(0, 255)(0,255)

• Normal: (255,0)(255,0)(255,0) or (-255,0)(-255,0)(-255,0)