$$F(M) = F(x_{p} + \frac{1}{2}, y_{p} + 1)$$

$$F(M) = A(x_{p} + \frac{1}{2}) + B(y_{p} + 1) + C$$

$$F(M_{N}) = F(x_{p} + \frac{1}{2}, y_{p} + 2)$$

$$= A(x_{p} + \frac{3}{2}, y_{p} + 2) + C$$

$$F(M_{NE}) = F(x_{p} + \frac{3}{2}, y_{p} + 2)$$

$$= A(x_{p} + \frac{3}{2}) + B(y_{p} + 2) + C$$
We know,
$$d_{init} = F(M) - F(p)$$

$$= F(x_{p} + \frac{1}{2}) + B(y_{p} + 1) + C - Ax_{p} - By_{p} - C$$

$$= Ax_{p} + \frac{A}{2} + By_{p} + B + C - Ax_{p} - By_{p} - C$$

$$= \frac{A}{2} + B$$

$$= dy/2 - dx \quad [A = dy \text{ and } B = dx]$$
Again,
$$d_{R} = F(M_{N}) - F(M)$$

$$= A(x_{p} + \frac{1}{2}) + B(y_{p} + 2) + C - A(x_{p} + \frac{1}{2}) - B(y_{p} + 1) + C$$

$$= By_{p} + 2B - By_{p} - B$$

$$= B$$

$$= -dx \quad [Ax_{p} + \frac{3}{2}] + B(y_{p} + 2) + C - A(x_{p} + \frac{1}{2}) - B(y_{p} + 1) - C$$

$$= Ax_{p} + \frac{3A}{2} + By_{p} + 2B - Ax_{p} - \frac{A}{2} - By_{p} - B$$

$$= A + B$$

duador Time