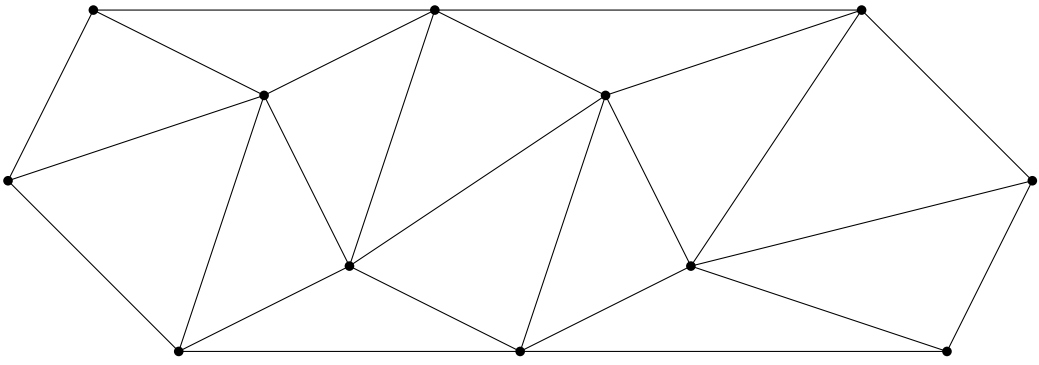


$DT(P)$

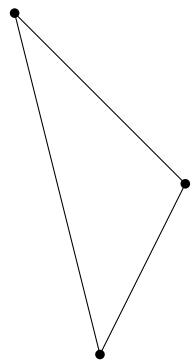
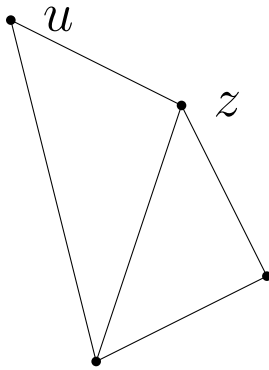
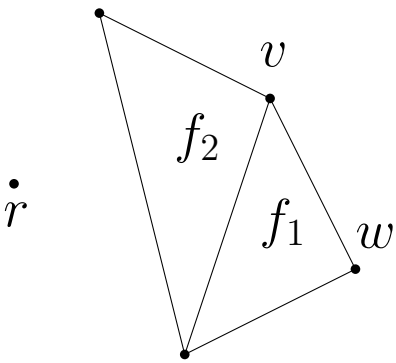


$DT(W_0)$

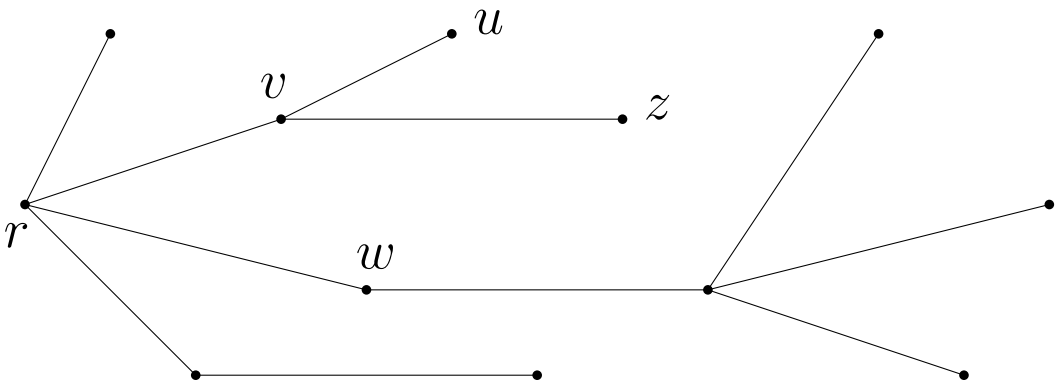
$DT(W_1)$

$DT(W_2)$

$DT(W_3)$



$SSSP(r, P)$



$$f(v) = f_2$$

$$\text{parent}(u) = v$$

$$\begin{aligned} NN(z, W_1) &= \text{nearestVertex}(W_1, z, f(\text{parent}(u))) \\ &= \text{nearestVertex}(W_1, u, f_2) = v \end{aligned}$$