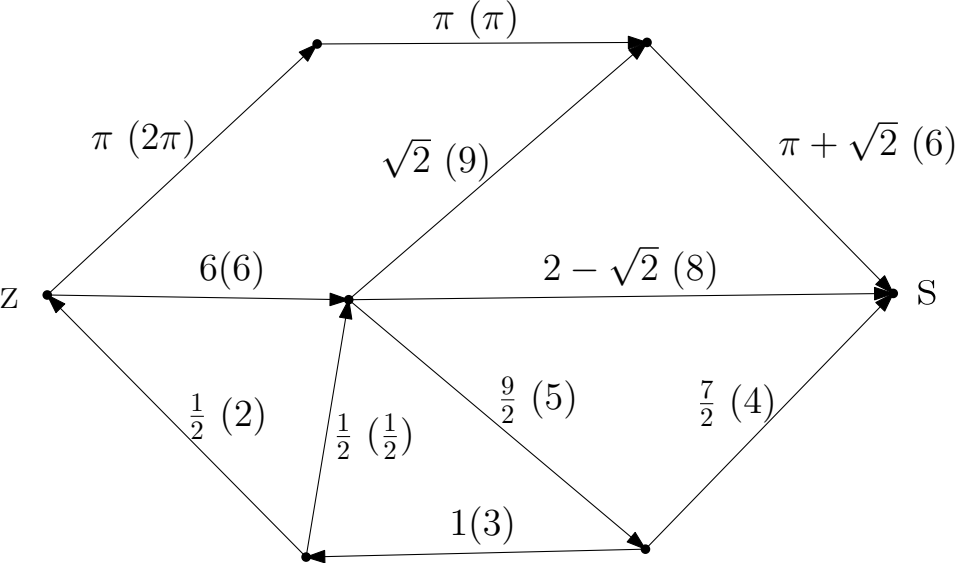

$$w(f) = \pi + \frac{11}{2}$$