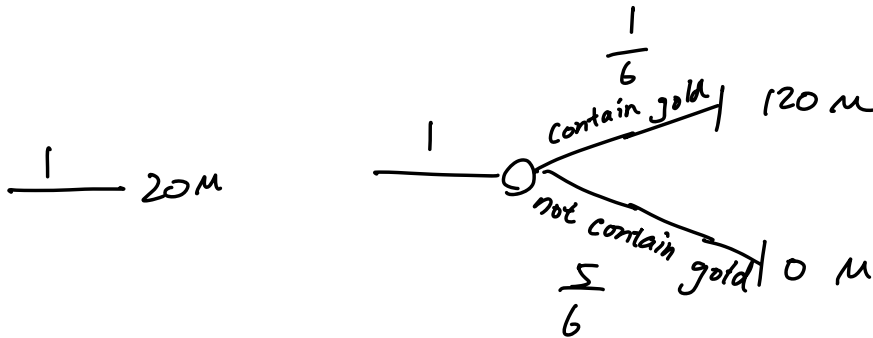


15-52 - Q3

Solution (a) ① Jack



$$EV(L) = \frac{1}{6} \times 120 + \frac{5}{6} \times 0 = 20M$$

risk premium

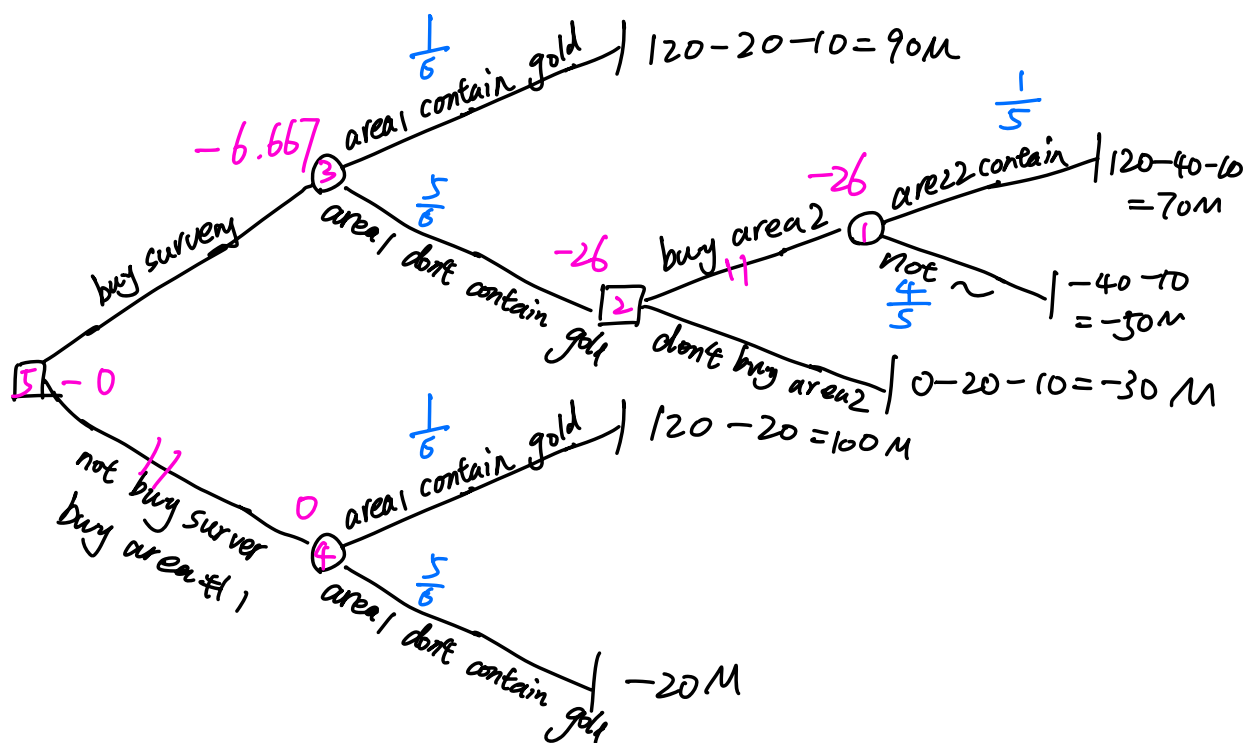
$$RP(L) = EV(L) - CE(L) > 0$$

risk averse

$$CE(L) < 20M$$

Since Jack is a decision maker,
the potential high payoff outweighs the
risk of loss in terms of his utility

(b) ① decision tree



$$\textcircled{2} \text{ EVSI} = \text{EVWSI} - \text{EVWOI}$$

$$EVWSI = 3.333$$

$$[v, w] = 0$$

$$E_{VSI} = 3.333 < 10$$

So Jack don't need this services

