Daily Exercise Solution

Given information:

Benefits:

Policy A: $B_A = $50,000$ Policy B: $B_B = $200,000$ Policy B risks:

State	Probability	Damage
Н	10%	\$1,000,000
L	30%	\$200,000
N	60%	\$0

Graphing the insurance company's policy decision:



Premium for fair insurance for B:

Z = 0.1 * (\$1,000,000) + 0.3 * (\$200,000) + 0.6 * (\$0)

$$Z = $160,000$$

Overall payoffs for each policy:

 $\Delta SS_A = B_A = \$50,000$

 $\Delta SS_B = B_B - Z = \$200,000 - \$160,000 = \$40,000$

Policy A is better