

UNIVERSITY OF TEXAS AT AUSTIN

Quiz #18

Spreads. Straddles. Strangles.

Please, provide your *final answer only* to the following problems.

Problem 18.1. (5 points) An investor buys an \$850-strike, two-year straddle on gold. The price of gold two years from now is modeled using the following distribution:

\$800, with probability 0.35,

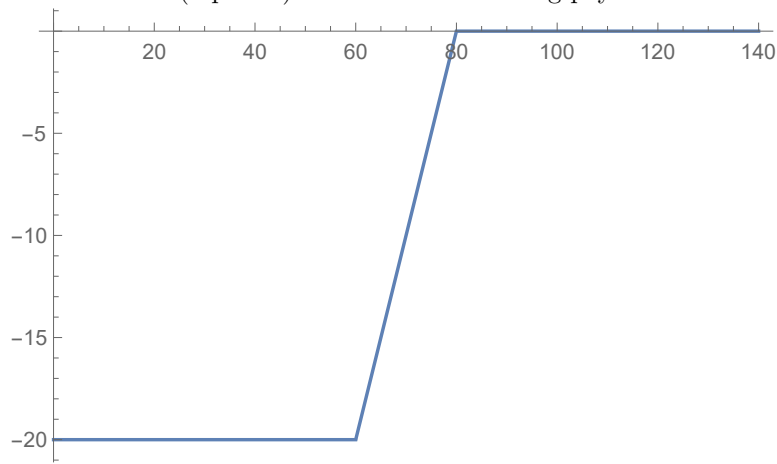
\$850, with probability 0.4,

\$925, with probability 0.25.

What is the investor's expected payoff?

- (a) About \$11.25
- (b) About \$23.00
- (c) About \$23.75
- (d) About \$36.25
- (e) None of the above.

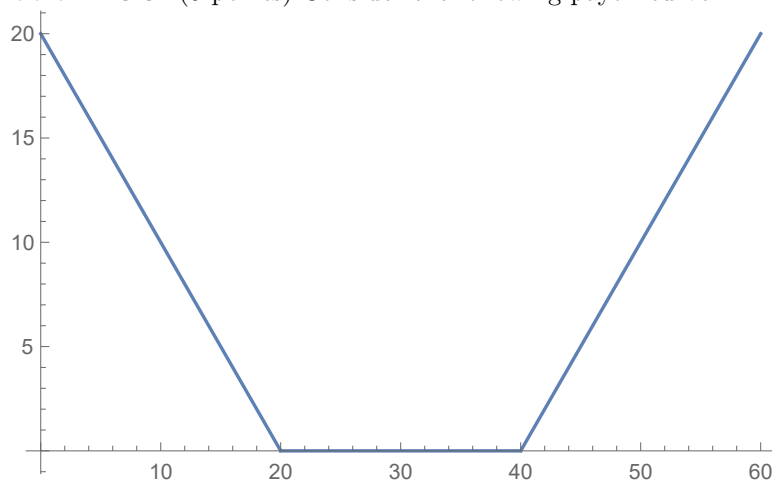
Problem 18.2. (5 points) Consider the following payoff curve:



Which of the following positions has the above payoff curve?

- (a) A put bull spread.
- (b) A call bull spread.
- (c) A put bear spread.
- (d) A call bear spread.
- (e) None of the above.

Problem 18.3. (5 points) Consider the following payoff curve:



Which of the following positions has the above payoff curve?

- (a) A straddle.
- (b) A strangle.
- (c) A bull spread.
- (d) A bear spread.
- (e) None of the above.