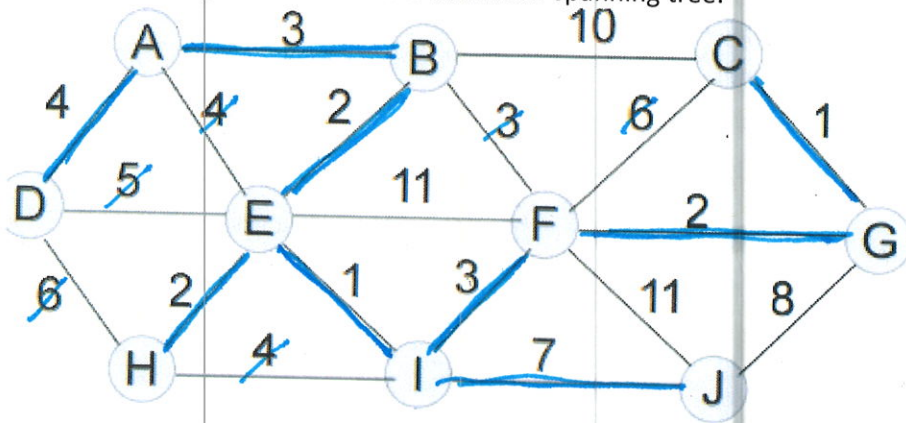


KEY

Instructions: Show all work. Use exact answers unless otherwise directed to round.

1. Use Kruskal's Algorithm to find the minimum spanning tree.



Choice of IF
or BF
may change
final result.

$$4 + 3 + 2 + 2 + 1 + 3 + 7 + 2 + 1 = 25$$

2. If you deposit \$700 in a savings account which is continuously compounded at a rate of 5%, how much is in the account after 4 years?

$$700 e^{0.05(4)} = \$854.98$$

3. If you take out a loan of \$20,000 at 7% compounded monthly, how large must your payment be to pay off the loan in three years?

$$N = 36$$

$$I = 7$$

$$PV = 20,000$$

$$PMT = \text{Solve} = \$617.54$$

$$FV = 0$$

$$P/Y = C/Y = 12$$