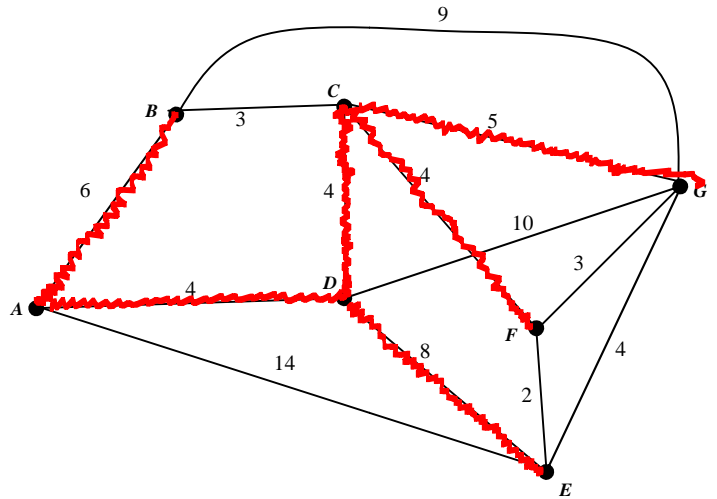


1. Find the shortest path to each vertex from Point A.

<u>STEP#1</u>	<u>STEP#2</u>	<u>STEP#3</u>
AB; 6	ADC; 8	ABC; 9
AD; 4	ADG; 14	ABG; 15
AE; 14	ADE; 12	



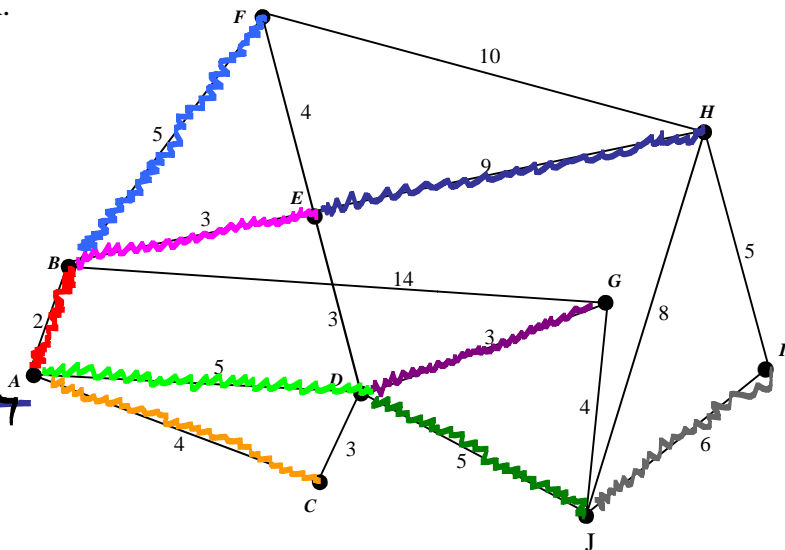
Shortest Distance From:

AB= 6	AE= 12
AC= 8	AF= 12
AD= 4	AG= 13

<u>STEP#4</u>	<u>STEP#5</u>	<u>STEP#6</u>
ADCG; 13	ADEF; 14	ADCF; 15
ADCF; 12	ADEG; 16	

2. Find the shortest path to each vertex from Point A.

<u>STEP#1</u>	<u>STEP#2</u>	<u>STEP#3</u>
AB; 2	ABF; 7	ACD; 7
AD; 5	ABE; 5	ABG; 16
AC; 4		
<u>STEP#4</u>	<u>STEP#5</u>	<u>STEP#6</u>
ADE; 8	ABEF; 9	ABFH; 17
ADG; 8	ABEH; 14	
ADJ; 10		



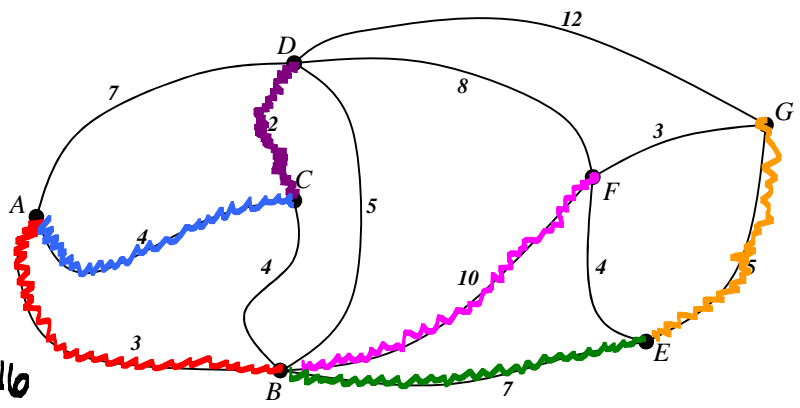
Shortest Distance From:

AB= 2	AF= 7
AC= 4	AG= 8
AD= 5	AH= 14
AE= 5	AI= 16

<u>STEP#7</u>	<u>STEP#8</u>	<u>STEP#9</u>
ADGJ; 12	ADJH; 18	ABEHI; 19
	ADJI; 16	

STEP#1 STEP#2 STEP#3
~~AD; 7~~ ~~ABC; 7~~ ACD; 6
AC; 4 ~~ABD; 8~~ ~~ABF; 13~~
AB; 3 ABE; 10

STEP#4 STEP#5 STEP#6
~~ACDG; 18~~ ~~ABEF; 14~~ ~~ABFG; 16~~
~~ACDF; 14~~ ABEG; 15

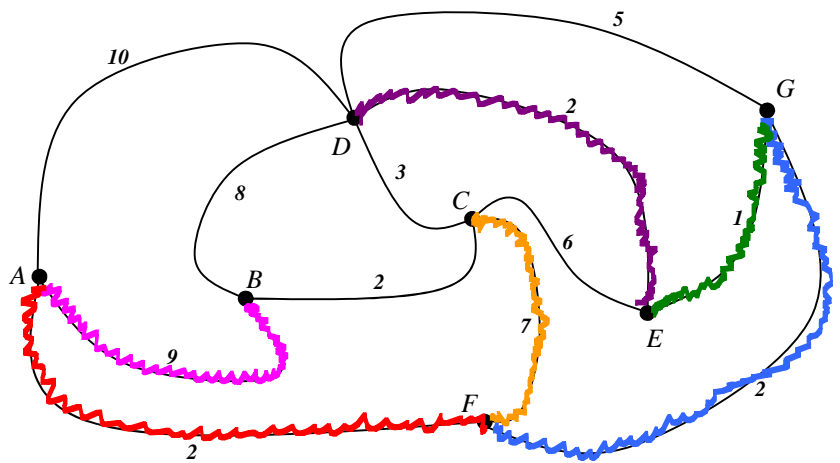


Shortest Distance From:

AB= 3 AE= 10
 AC= 4 AF= 13
 AD= 6 AG= 15

STEP#1 STEP#2 STEP#3
~~AD; 10~~ AFC; 9 ~~AFGD; 9~~
AB; 9 AFG; 4 AFGE; 5
AF; 2

STEP#4 STEP#5 STEP#6
AFGED; 7 ~~AFGEDB; 15~~ ~~ABC; 11~~
~~AFGEC; 11~~ ~~AFGEDC; 10~~



Shortest Distance From:

AB= 9 AE= 5
 AC= 9 AF= 2
 AD= 7 AG= 4