

Surveying - Traverse


Traverse Area – Example 4

Find the area enclosed by the following traverse

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0		
BC	100.0	400.0		
CD	0.0	100.0		
DE	-400.0	-300.0		
EA	-300.0	-400.0		

2 Area = ft²
 Area = acre

1 acre = 43,560 ft.²



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Traverse Area – Example 4

The **DMD** of line AB is departure of line AB

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0		
BC	100.0	400.0		
CD	0.0	100.0		
DE	-400.0	-300.0		
EA	-300.0	-400.0		

2 Area = ft²
 Area = acre

1 acre = 43,560 ft.²



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Traverse Area – Example 4

The **DMD** of line BC is DMD of line AB + departure of line AB + the departure of line BC

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0	200.0	120,000
BC	100.0	400.0		
CD	0.0	100.0		
DE	-400.0	-300.0		
EA	-300.0	-400.0		

2 Area = ft²
 Area = acre

1 acre = 43,560 ft.²



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Traverse Area – Example 4

The **DMD** of line CD is DMD of line BC + departure of line BC + the departure of line CD

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0	200.0	120,000
BC	100.0	400.0	400.0	80,000
CD	0.0	100.0		
DE	-400.0	-300.0		
EA	-300.0	-400.0		

2 Area = ft²
 Area = acre

1 acre = 43,560 ft.²



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Traverse Area – Example 4

The **DMD** of line DE is DMD of line CD + departure of line CD + the departure of line DE

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0	200.0	120,000
BC	100.0	400.0	400.0	80,000
CD	0.0	100.0	1300.0	0
DE	-400.0	-300.0		
EA	-300.0	-400.0		

2 Area = ft²
 Area = acre

1 acre = 43,560 ft.²



Surveying - Traverse


Traverse Area – Example 4

The **DMD** of line EA is DMD of line DE + departure of line DE + the departure of line EA

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0	200.0	120,000
BC	100.0	400.0	400.0	80,000
CD	0.0	100.0	1300.0	0
DE	-400.0	-300.0	1100.0	-440,000
EA	-300.0	-400.0		

2 Area = ft²
 Area = acre

1 acre = 43,560 ft.²



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Traverse Area – Example 4

➤ Find the area enclosed by the following traverse

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0	200.0	120,000
BC	100.0	400.0	800.0	80,000
CD	0.0	100.0	1300.0	0
DE	-400.0	-300.0	1100.0	-440,000
EA	-300.0	-400.0	400.0	-120,000
2 Area =				-360,000

1 acre = 43,560 ft.²

Area = ft²
 acre

Surveying - Traverse

Traverse Area – Example 4

➤ Find the area enclosed by the following traverse

Side	Balanced		DMD	Double Areas
	Latitude	Departure		
AB	600.0	200.0	200.0	120,000
BC	100.0	400.0	800.0	80,000
CD	0.0	100.0	1300.0	0
DE	-400.0	-300.0	1100.0	-440,000
EA	-300.0	-400.0	400.0	-120,000
2 Area =				-360,000

1 acre = 43,560 ft.²

Area = ft²
 acre

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Group Example Problem 4

Questions?