Dear students,

Below are the solutions to assignment #4.

1.

98°12′55″,153°26′40″,192°56′22″, and 288°12′50″

Bearings	Angles
S81°47’05”E	55°13’45”
S26°33’20”E	39°29’42”
S12°56’22”W	95°16’28”
N71°47’10”W	170°00’05”

2.

N32°42′38″E,S54°02′02″E,S22°42′56″W, and N44°35′26″W

Azimuths	Angles
32°42’38”	93°15’20”
125°57’58”	76°44’58”
202°42’56”	112°41’38”
315°24’34”	77°18’04”

3.

$A = 82°13′15″, B = 106°35′18″, C = 28°45′06″, D = 205°14′56″, E = 117°11′25″$

Course	Bearing	Azimuth
AB	Due North	0°00'00"
BC	N73°24'42"W	286°35'18"
CD	S44°39'36"E	135°20'24"
DE	S19°24'40"E	160°35'20"
EA	S82°13'15"E	97°46’45"

4. Azimuth of AB= 207º 53’14’’ (station C is easterly from B).

Course	Azimuths
AB	207º 53’14’’
BC	267º 53’14’’
CD	327º 53’14’’
DE	27º 53’14’’
EF	87º 53’14’’
FA	147º 53’14’’

5.

1875 Magnetic Bearing	1875 Declination	Present Declination	**Present Magnetic Bearing**
N32°45′E	8°12′W	2°30′E	**N22°03'E**

6.

Direct: 0°00′00″, 106°52′06″, 191°38′43″, 359°59′58″

Reverse: 0°00′00″, 106°52′04″, 191°38′41″, 0°00′00″

106°52’05”; 84°46’37”; 168°21’17”; misclosure = −3”

Good luck,