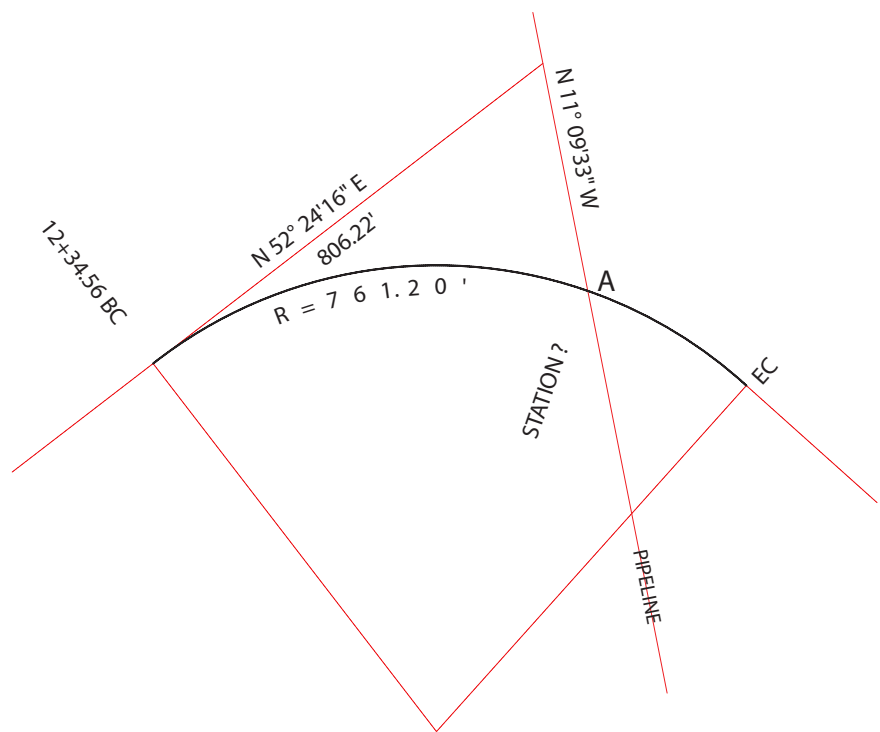


Problem
144

by Dave Lindell, L.S.

A pipeline crosses a highway curve at Point A.

What is the station of Point A?



Problem
145

by Benjamin Bloch, Ph.D.

Every positive number can be placed in one of nine columns headed by the single digits **1** through **9**.

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45

Review

You can immediately find the single digit column heading every positive number by adding the digits in that number until a single digit is obtained. To indicate that you are reducing a number to its single digit column you write it as: $137 \Rightarrow 11 \Rightarrow 2$. Thus, the number 137 falls under the column headed by the single digit 2. The final digit is called the SDQ or single digit quality.

For the following bearings write down their reverse bearings ($\mp 180^\circ$) and immediately check for incorrectness.

- Bearing 045.674°
- Bearing $088^\circ 21' 47''$
- Bearing 123.550°
- Bearing $327^\circ 58.6'$
- Check all problems a) through d) simultaneously.
- Why does this work?