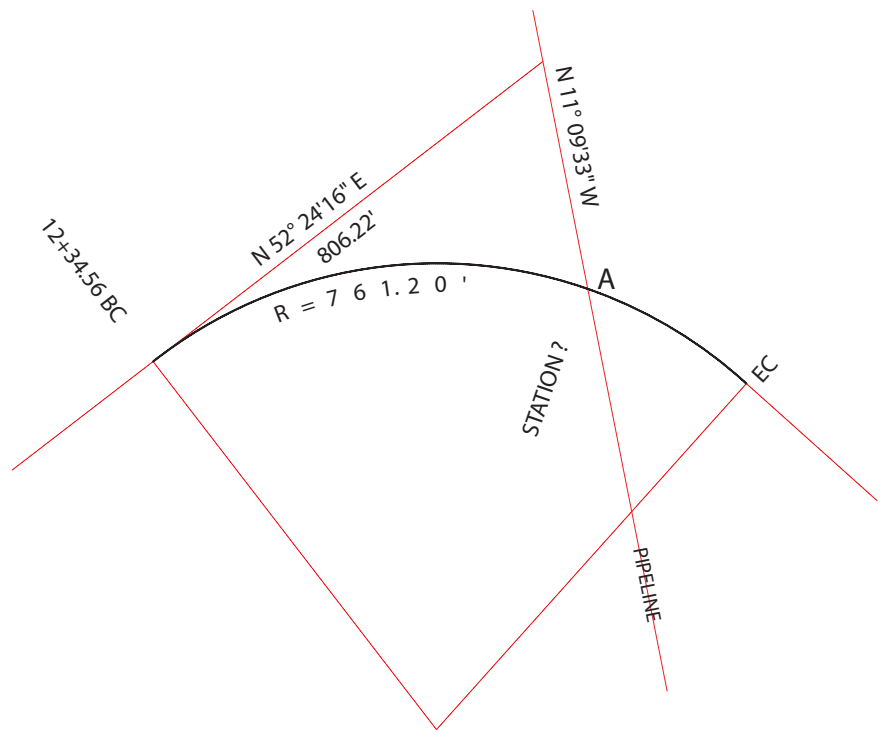


Problem  
**144**

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