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Examination for Horizontal Curves

1. What are the 4 types of horizontal curves?
 - a) compound, complex, simple, elliptical
 - b) complex, concave, steep, spiral
 - c) concave, steep, skewed, spiral
 - d) compound, reverse, simple, spiral.

2. The arc of a circle is a definition for what type of horizontal curve?
 - a) simple
 - b) spiral
 - c) steep
 - d) skewed

3. Two (2) curves joined together and curving in the same direction represents what type of horizontal curve?
 - a) simple
 - b) compound
 - c) complex
 - d) concave

4. Two (2) curves joined together and curving in the opposite direction represents what type of horizontal curve?
 - a) simple
 - b) compound
 - c) reverse
 - d) concave

9. Observe the curve in question 7: What is the value for E?

- a) 8.24'
- b) 10.49'
- c) 12.67'
- d) none of the above

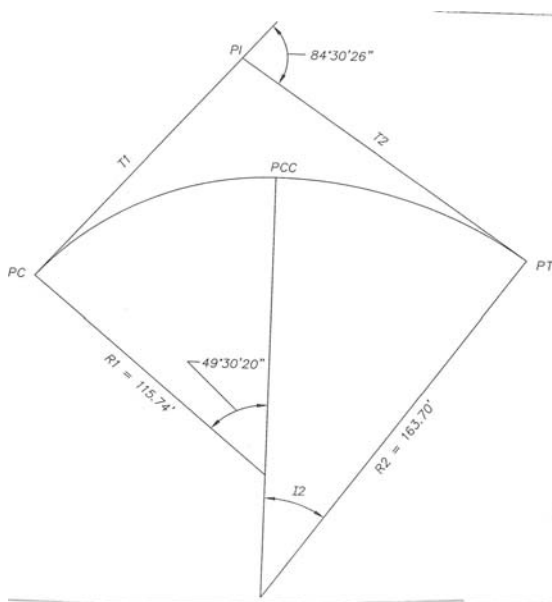
10. Observe the curve in question 7: What is the value for M?

- a) 7.61'
- b) 8.24'
- c) 5.87'
- d) none of the above

11. Observe the curve in question 7: What is the value for T?

- a) 12.56'
- b) 41.42'
- c) 57.74'
- d) none of the above

12. Observe the following compound curve:



What is the angle of I_2 ?

- a) $35^\circ 00' 06''$
- b) $27^\circ 15' 22''$
- c) $40^\circ 00' 00''$
- d) none of the above

13. Observe the curve in question 12: What is the value for T1?

- a) none of the above
- b) 113.86'
- c) 110.23'
- d) 99.68'

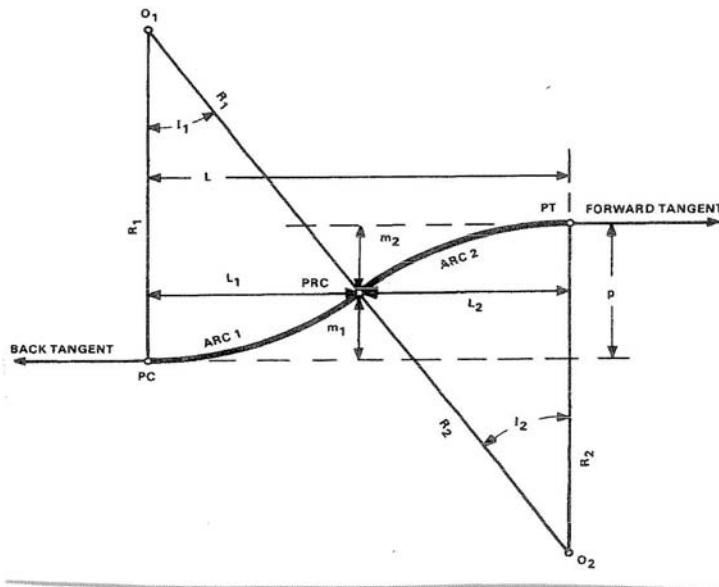
14. Observe the curve in question 12: What is the value for T2?

- a) none of the above
- b) 90.27'
- c) 111.11'
- d) 131.82'

15. A spiral curve is also known as a transition curve.

- a) true
- b) false

16. Observe the following curve:



If the degree of curve for both arcs is 5° and P is 225.00 feet, what is the value for L?

- a) 600.32 feet
- b) 550.19 feet
- c) 495.30 feet
- d) 486.37 feet

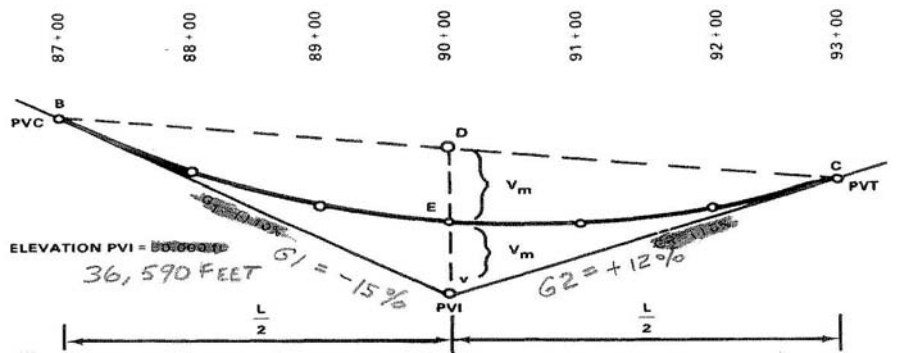
17. Due to possible obstruction or topographic considerations, it is possible to have a reverse curve with two diverging tangents.

- a) true
- b) false

18. A vertical curve is considered to be a _____ curve.

- a) parabolic
- b) hyperbolic
- c) static
- d) none of the above

19. Observe the following vertical curve:



What is the length of the vertical curve?

- a) 300 feet
- b) 425 feet
- c) 550 feet
- d) none of the above

20. Observe the vertical curve in question 19: What is the curve elevation at station 88+50?

- a) 36617.56 feet
- b) 36682.89 feet
- c) 36788.00 feet
- d) None of the above

21. Observe the vertical curve in question 19: What is the station and elevation of the low point?

- a) 90+33.33 - 36610.00 feet
- b) 100+25.87 - 36600.00 feet
- c) 90+00.00 - 36609.00 feet
- d) none of the above



Answer Sheet for Spiral Curves
 TPDH-00005

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State Board	Course No.	Credit

Please return this answer sheet and your check or money order to Triton-PDH.com

Please completely fill in one box for each answer

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I hereby certify that I have studied the course materials, and the above answers are my own.
 No other person has helped me complete this examination.

 Signature

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