

Section 2.1 Answers to the Assigned Even Problems

2. 4 segments: AB, BC, BD, BE

4. 2 Rays: CD (or CE), CB (or CA)

6. Rays: ED, EC, EB

8. a) $6\sqrt{2}$, b) $5\sqrt{2}$, c) $2\sqrt{2}$, d) $9\sqrt{2}$

10. a) $\angle PQR$ or $\angle RQP$, $\angle PQS$ or $\angle SQP$, $\angle SQR$ or $\angle RQS$
b) $\angle PQS$ and $\angle SQR$, $\angle PSQ$ and $\angle RSQ$

12. a) 6 angles
b) 2
c) 2 pairs: $\angle WSV$ and $\angle VST$, $\angle WSU$ and $\angle UST$

14. a) 85° acute
b) 129° obtuse
c) 100° obtuse

16. $\angle AOB = 78^\circ$, $\angle BOC = 12^\circ$

18. $\angle 1 \approx 55.33^\circ$, $\angle 2 \approx 34.67^\circ$

20. $\angle X = 123^\circ$

22. 4 points, 6 lines; 5 points, 10 lines; 6 points, 15 lines; n points, $[n(n-1)]/2$ lines

24. a) 189.85° b) 220.615° c) 95.567° d) 353.430°

26. a) $175^\circ 57'$ b) $11^\circ 24'$ c) $87^\circ 11'$ d) $270^\circ 40'$

28. a) $15^\circ 43' 48''$ b) $2^\circ 9' 36''$ c) $112^\circ 13' 19''$ d) $244^\circ 19' 34''$