

Answers: Sine Rule and Cosine Rule

Exercise A

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|------------------|------------------|-------------------------------|------------------|------------------------------|
| 1. 6.38 m | 2. 12.5 m | 3. 5.17 cm | 4. 40.4 cm | 5. 7.81 m |
| 6. 6.68 m | 7. 8.61 cm | 8. 9.97 cm | 9. 8.52 cm | 10. 15.2 cm |
| 11. 35.8° | 12. 42.9° | 13. 32.3° | 14. 37.8° | 15. $35.5^\circ, 48.5^\circ$ |
| 16. 68.8° | 17. 64.6° | 18. 34.2° | 19. 50.6° | 20. 39.1° |
| 21. 39.5° | 22. 21.6° | 23. $72.5^\circ, 107.5^\circ$ | | |
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Exercise B

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| 1. 6.24 | 2. 6.05 | 3. 5.47 | 4. 9.27 | 5. 10.1 |
| 6. 8.99 | 7. 5.87 | 8. 4.24 | 9. 11.9 | 10. 154 |
| 11. 25.2° | 12. 71.4° | 13. 115.0° | 14. 111.1° | 15. 24.0° |
| 16. 92.5° | 17. 99.9° | 18. 38.2° | 19. 137.8° | 20. 34.0° |
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Exercise C

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| 1. (a) 50.2 km | (b) 054.7° | 2. 35.6 km | 3. 25.2 m | | |
| 4. (a) 10.3 cm | (b) 11.6 cm | (c) 4.86 cm | (d) 37.2° | (e) 94.1° | (f) 42.6° |
| 5. 92.9° | | | | | |
| 6. 14.5cm | | | | | |
| 7. (a) 9.8 km | (b) 085.7° | | | | |
| 8. (a) 29.6 km | (b) 050.5° | | | | |
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