

7.  $\frac{2}{c}$       8.  $x < 7.4$       9.  $b = 4(a + 2)^2$
10. a)  $p^3(c + d)$       b)  $p = \sqrt{\frac{b^2 + a^2}{c + d}}$       11. 1.25      12. 0.128
13. a)  $y = \frac{1}{x^2}$  or  $y = \frac{k}{x^2}$       b) 30      c) 3.46      d) 4.93      e) divided by 4
- f) increases by 25%      g)  $x = \sqrt{\frac{120}{y}}$
14. a)  $x + y \leq 12, x \geq 4$       d) i) 518 [from (4,4)]      ii) \$27 [from (6,6)]
15. a) i) 439.8 to 440 cm<sup>3</sup>      ii)  $h = \frac{A - 2\pi r^2}{2\pi r}$       iii) 3.99 to 4.01      iv) 9.77 to 9.78
- b) i) 134      ii)  $\frac{x}{45}$       iii)  $\frac{x - 75}{48}$       iv)  $x = 3915$

## 6 Trigonometry

### Exercise 2 page 210

- |             |             |              |             |             |
|-------------|-------------|--------------|-------------|-------------|
| 1. 4.54     | 2. 3.50     | 3. 3.71      | 4. 6.62     | 5. 8.01     |
| 6. 31.9     | 7. 45.4     | 8. 4.34      | 9. 17.1     | 10. 13.2    |
| 11. 38.1    | 12. 3.15    | 13. 516      | 14. 79.1    | 15. 5.84    |
| 16. 2.56    | 17. 18.3    | 18. 8.65     | 19. 11.9    | 20. 10.6    |
| 21. 119     | 22. 10.1    | 23. 3.36 cm  | 24. 4.05 cm | 25. 4.10 cm |
| 26. 11.7 cm | 27. 9.48 cm | 28. 5.74 cm  | 29. 9.53 cm | 30. 100 m   |
| 31. 56.7 m  | 32. 16.3 cm | 33. 0.952 cm | 34. 8.27 m  |             |

### Exercise 3 page 212

- |                   |               |               |                |               |
|-------------------|---------------|---------------|----------------|---------------|
| 1. 5, 5.55        | 2. 13.1, 27.8 | 3. 34.6, 41.3 | 4. 20.4, 11.7  | 5. 94.1, 94.1 |
| 6. 15.2, 10, 6.43 | 7. 4.26       | 8. 3.50       | 9. 26.2        | 10. 8.82      |
| 11. a) 17.4 cm    | b) 11.5 cm    | c) 26.5 cm    | 12. a) 6.82 cm | b) 6.01 cm    |
|                   |               |               |                | c) 7.31 cm    |

### Exercise 4 page 214

- |           |           |           |           |           |           |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 1. 36.9°  | 2. 44.4°  | 3. 48.2°  | 4. 60°    | 5. 36.9°  | 6. 50.2°  |
| 7. 29.0°  | 8. 56.4°  | 9. 38.9°  | 10. 43.9° | 11. 41.8° | 12. 39.3° |
| 13. 60.3° | 14. 50.5° | 15. 13.6° | 16. 34.8° | 17. 60.0° | 18. 42.0° |
| 19. 36.9° | 20. 51.3° | 21. 19.6° | 22. 17.9° | 23. 32.5° | 24. 59.6° |
| 25. 54.8° | 26. 46.3° |           |           |           |           |

### Exercise 5 page 217

- |                           |             |                   |             |
|---------------------------|-------------|-------------------|-------------|
| 1. 19.5°                  | 2. 4.1 m    | 3. a) 26.0 km     | b) 23.4 km  |
| 4. a) 88.6 km             | b) 179.3 km | 5. 4.1 m          | 6. 8.6 m    |
| 7. a) 484 km              | b) 858 km   | c) 985 km, 060.6° |             |
| 8. 954 km, 133°           | 9. 56.3°    | 10. 35.5°         | 11. 71.6°   |
| 12. 91.8°                 | 13. 180 m   | 14. 36.4°         | 15. 10.3 cm |
| 16. 9.51 cm               | 17. 71.1°   | 18. 67.1 m        | 19. 138 m   |
| 20. 83.2 km               | 21. 60°     | 22. 13.9 cm       | 23. Yes     |
| 24. 11.1 m; 11.1 s; 222 m | 25. 4.4 m   |                   |             |

### Exercise 6 page 219

- |          |               |           |                |                    |          |
|----------|---------------|-----------|----------------|--------------------|----------|
| 1. 100 m | 2. 89 n miles | 3. 103 km | 4. 99 km; 024° | 5. 9190 km/h; 255° | 6. 11 km |
|----------|---------------|-----------|----------------|--------------------|----------|

### Exercise 7 page 221

- |               |            |            |          |
|---------------|------------|------------|----------|
| 1. a) 13 cm   | b) 13.6 cm | c) 17.1°   |          |
| 2. a) 4.04 m  | b) 38.9°   | c) 11.2 m  | d) 19.9° |
| 3. a) 8.49 cm | b) 8.49 cm | c) 10.4 cm | d) 35.3° |
| 4. a) 14.1 cm | b) 18.7 cm | c) 69.3°   | e) 35.3° |
|               |            |            | d) 29.0° |
|               |            |            | e) 41.4° |

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