01. 0607_s22_ms_22 Q: 12

Question	Answer	Marks	Partial Marks
	$\frac{3}{5}$ oe	1	

02. 0607_w22_ms_21 Q: 14

Question	Answer	Marks	Partial Marks
	$21\pi+9$ or $3(7\pi+3)$	4	**M1** for $0.5\times6\times6\times\sin150$ [=9] **M1** for $\frac{150}{360}\times\pi\times6^2$ [=15π] or $\frac{210}{360}\times\pi\times6^2$ [=21π] **M1** for $\pi\times6^2-\{their(\frac{150}{360}\times\pi\times6^2)-their(0.5\times6\times6\times\sin150)\}$ or $their\left(\frac{210}{360}\times\pi\times6^2\right)+0.5\times6\times6\times\sin150$

03. 0607_w22_ms_22 Q: 10

Question	Answer	Marks	Partial Marks
	6	3	**M1** for $\tan 60 = \frac{x}{2\sqrt{3}}$ **B1** for $\tan 60 = \sqrt{3}$

04. 0607_s21_ms_21 Q: 10

Question	Answer	Marks	Partial Marks
(a)	30	1	
(b)	210 330	2	**B1** for each or **B1** for both with extras in range

05. 0607_s21_ms_22 Q: 14

Question	Answer	Marks	Partial Marks
	4	3	**M1** for $\frac{k\sqrt{3}}{12}=\tan 30$ **B1** for $\tan 30 = \frac{1}{\sqrt{3}}$ soi

06. 0607_w21_ms_21 Q: 11

Question	Answer	Marks	Partial Marks
	$16 + 10\sqrt{3}$	4	**M1** for $(5 + \sqrt{3})^2 = x^2 + (2\sqrt{3})^2$ oe **B1** for $5^2 + 5\sqrt{3} + 5\sqrt{3} + (\sqrt{3})^2$ oe **B1** for 12

07. 0607_w21_ms_22 Q: 20

Question	Answer	Marks	Partial Marks
(a)	$-k$	1	
(b)	$\frac{1}{k}$	1	

08. 0607_s20_ms_21 Q: 6

Question	Answer	Marks	Partial Marks
	7	3	**M2** for $\frac{x}{14} = 0.5$ oe or **M1** for $\frac{x}{14} = \sin 30$ or **B1** for $\sin 30 = 0.5$ oe

09. 0607_s20_ms_22 Q: 15

Question	Answer	Marks	Partial Marks
	2	2	**M1** for $\sqrt{11}^2 - \sqrt{7}^2$

10. 0607_s20_ms_23 Q: 11

Question	Answer	Marks	Partial Marks
(a)	0.940	1	
(b)	–0.839	1	

11. 0607_w20_ms_23 Q: 7

Question	Answer	Marks	Partial Marks
	$\frac{5}{13}$	3	**M1** for $5^2 + 12^2$ **M1** for $\frac{5}{their 13}$ if from Pythagoras

12. 0607_w20_ms_23 Q: 11

Question	Answer	Marks	Partial Marks
	84	3	**B1** for [cos 60 =] 0.5 soi **M1** for $8^2 + 10^2 - 2 \times 8 \times 10\cos 60$

13. 0607_w20_ms_23 Q: 16

Question	Answer	Marks	Partial Marks
(a)	$-x$	1	

Question	Answer	Marks	Partial Marks
(b)	$\frac{1}{x}$	1	

14. 0607_w18_ms_23 Q: 12

Question	Answer	Marks	Partial Marks
	225, 315	2	**B1** for each If 0 scored, **M1** for 45 seen

15. 0607_s17_ms_21 Q: 8

Question	Answer	Marks	Part Marks
	10	3	**M2** for $\sqrt{26^2 - 24^2}$ or **M1** for $x^2 + 24^2 = 26^2$ or identifies 5, 12, 13 triangle

16. 0607_s17_ms_21 Q: 17

Question	Answer	Marks	Part Marks
	$\cos 60 \quad \sin 60 \quad \sqrt{2} \quad \tan 60$	2	**B1** for 3 in correct 'relative' order

17. 0607_s17_ms_23 Q: 16

Question	Answer	Marks	Part Marks
	[amplitude =] 6 [period =] 60	2	**B1** for each If 0 scored, **SC1** if answers reversed

18. 0607_s17_ms_23 Q: 17

Question	Answer	Marks	Part Marks
	7	3	**B1** for cos60 = 0.5 **M1** for $5^2 + 8^2 - 2 \times 5 \times 8 \times \cos 60$

19. 0607_w17_ms_22 Q: 5

Question	Answer	Marks	Partial Marks
	3	**3**	**M2** for $\sqrt{10^2 - 91}$ or **M1** for $AB^2 + 91 = 10^2$ or better

20. 0607_w17_ms_22 Q: 16

Question	Answer	Marks	Partial Marks
	60	**1**	