

1	Number	Answer	Mark	Additional guidance
(a)	10°	B1	1	Accept answers in diagram if clear
(b)	80°	B1	1	
(c)	42°	A1	1	
(d)	116°	A1	1	After 0 award M1 for $32^\circ + 10^\circ$ or equiv M1 After 0 award M2 for $2(90^\circ - 32^\circ)$ or equiv M1 After 0 award M1 for $90^\circ - 32^\circ$ or equiv M1

Ans a) No penalty b) No penalty c) 1 d) 1 [7]

2	Number	Answer	Mark	Additional guidance
(a)	$(m-n)(5m+n)$	A1	1	Each wrong factor $5(m^2-n^2) - M1$ After 0 award B1 for $(m-n)(4m+2n+m+n)$ or equiv M1
(b)	90 kg	A1	1	After 0 award M1 for $81 \times 11 - 80, 1 \times 10$ M1
(c)	28% 42%	A1	1	After 0 award M1 for $70 \times \frac{40}{100} \times \frac{100 - [40 + (\frac{30}{100} \times 60)]}{100}$ or equiv M1
(d)	$x = -4$ and $x = 2$	A1	1	After 0 award M3 for one correct solution After 0 award M2 for $((x+4)(x-2) = 0)$ or equiv M1 After 0 award M1 for $x^2 - 2(4-x) = 0$ or equiv M1 $2(4-x) = x^2$ $x = -4$ and $x = 2$ A1 A1

Ans a) 1 b) 1 c) 1 d) 1+1 [10]

$Q = \frac{A}{\pi r}$

3	Number	Answer	Mark	Additional guidance
(a)	(i) $l = \frac{A - \pi r^2}{\pi r}$	A1	1	After 0 award M1 for $A - \pi r^2 = \pi r l$ M1
	(ii) $l = 5 \text{ cm}$	A1	1	After 0 award M1 for $121, 44 - \pi \times 4, 2^2$ or equiv M1 $\pi \times 4, 2$
(b)	(i) $T = h + kN^2$	B1	1	
	(ii) $h = 18$ and $k = \frac{3}{4}$	A1 A1	2	After 0 award M2 for one correct value After 0 award M1 for $15 = 20k$ or equiv M1
	(iii) $T = 54 \frac{3}{4}$	A1	1	After 0 award M1 for $18 + (\frac{3}{4} \times 49)$ or equiv M1 $18 + (4 \text{ or } \frac{3}{4} \times 7^2)$ M1 A1

4	Number	Answer	Mark	Additional guidance
(a)	accept -0.375	A1	1	After 0 award M2 for $15 - 18$ or equiv M1 $-\frac{3}{8}$ A1
(b)	$6x^2 + xy - 2y^2$ or equiv	A1	2	After 0 award M1 for $6x^2 + 4xy - 3xy - 2y^2$ M1
(c)	$\frac{16}{10000}$	A1	1	After 0 award M1 for 8125 or equiv M1
(d)	(i) $2^3 \times 3^5$	B1	1	
	(ii) 18	B1	1	
(e)	$\frac{2}{x-5}$	A1	1	After 0 award M2 for $\frac{2(x-5)+2}{(x-4)(x-5)}$ or equiv M1 After 0 award M1 for $(x-4)(x-5)$ seen M1

Ans a) 1 b) 1 c) 1 d) (i) No penalty (ii) No penalty e) 1 [12]

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




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