Question 3 – 3:

3(a)	8.25 or 8.246…	3	**M2** for $(3--5)^2+(2-4)^2$ oe or better or **M1** for $(3--5)$ and $(2-4)$ oe seen
3(b)	$[y =] 4x+7$	5	**B1** for [midpoint] $(-1, 3)$ soi **M1** for [gradient of l =] $\dfrac{4-2}{-5-3}$ oe **M1** for gradient $-1 \,/\, their\left(-\dfrac{1}{4}\right)$ **M1dep on at least M1** for *their* $(-1, 3)$ substituted into $y = their\ m \times x + c$ oe

3(c)	$(0, -8)$ and $(0, 16)$	4	**B3** for $(0, -8)$ or $(0, 16)$ or for -8 and 16 **OR** **B2** for distance $= [\pm]12$ soi or **M1** for $13^2 - (5[-0])^2$ oe **B1** for both answers $(0, k)$, $k \neq 0$ or 4 **ALT METHOD** **B3** for $(0, -8)$ or $(0, 16)$ or for -8 and 16 **OR** **M2** for $y^2 - 8y - 128 \, [= 0]$ or for $(y-4)^2 = 144$ or better or **M1** for $13^2 = (-5-0)^2 + (4-y)^2$ oe **B1** for both answers $(0, k)$, $k \neq 0$ or 4