

Q5/(Xi) a-2

(ii)

$$S_n = \frac{1}{2} (\alpha + L)$$

$$5_{21} = \frac{21}{2}(2+32)$$

(4)

(c)(i)

PTO



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$$y = x^2 - 8x + 4$$
 $y = 8^2 - 8x + 4$

$$\frac{dy = x - 8 = 0}{dx}$$

$$x = 8$$

vertex (8,4)

(ii)

$$x^2 = y + 8x - 4$$
 $(x - 8)^2 = 4a(4 - 4)$

$$\frac{x^{2} = y + 8x - 4}{x^{2} - 8x + 4} = y - 4$$

$$(x - 8)^{2} = 4a(4 - 4)$$

$$x^{2} - 16x + 64 = 4a(4 - 4)$$

$$x^2 - 8x + 38 = y + 28$$
 = $4ay - 16$