

201

المعترض الأول (6 نقط)

(1) $0,75 + 1$ $169 = \frac{2}{5} \times 579 = (6 + \frac{2}{5}) \times \frac{2}{5} + (6 - \frac{2}{5})$
 $(0,75) \times 3 + 0,5$ $19 = \frac{2}{7} \times 7 = \frac{2}{5} \times 13 + \frac{2}{5}$
1 $2 - 0,3 = \frac{2}{5}$
 $0,5 + 0,75$ $666 = 2 \times 1996 = 2 - 0,3$

المعترض الثاني: (6 نقط)

$0,75$ $220 = \frac{3}{12}$
 $0,25 + 1,50$ $\frac{40}{220} = \frac{1}{5}$ $40 = \frac{1}{5} \times 220$
 $0,25 + 1,50$ $\frac{60}{220} = \frac{1}{3}$ $60 = \frac{1}{3} \times 220$
 $0,25 + 1,50$ $\frac{145}{220} = \frac{1}{2}$ $145 = \frac{1}{2} \times 290$
..... $145 = \frac{2}{5} \times 7 + \frac{2}{5} \times 8 + \frac{2}{5} \times 9$

المعترض الثالث: (8 نقط)

1 $1 = \lambda - 0$ ومنه $\lambda = 1$
 $0,5$ $\mathcal{P}(\mathcal{E})$ مجموعة تعريفها $\mathcal{E} = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50\}$
 $0,5 + 0,5$ النهايات
1 المستقيمها $(x) = 4$
 $0,5 + 1$ جدول التغييرات (إشارة المستقيم و اتجاه التغيير)
 $0,5$ $\mathcal{E} = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50\}$
1 $\mathcal{E} = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50\}$
 $1,5$ رسم المنحنى (كش)