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نام و نام خانوادگی ..... مدرسه ..... پاسخنامه تشریحی تکلیف شماره ... آ. کلاس ..... تاریخ .....  
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$$y = -x^2 + bx + 12 \rightarrow \frac{-b}{2a} = 12 \rightarrow \frac{-b}{-2} = 12 \rightarrow b = 24$$

$$b^2 + 12 = 14 \rightarrow b^2 = 14 \rightarrow b = \pm \sqrt{14}$$

$$b = 24 \rightarrow 12 \rightarrow -x^2 + 24x + 12 \checkmark$$

$$b = -24 \rightarrow -x^2 - 24x + 12 \checkmark$$

مورد اول قبول  $\rightarrow b = \pm 24$

1

الف)  $f(x) = x^2 + 12x + 12$

$$x^2 + 12x + 12 = 0 \rightarrow \Delta = b^2 - 4ac = 144 - 48 = 96$$

$$12 - 12 = 0 \rightarrow 0 \checkmark$$

مقدار مثبت است

مقدار از این معادله از

مقدار منفی

ب)  $f(x) = (x - a)^2 - 2(x - a) - 10$

$$x^2 - 2ax + a^2 - 2x + 2a - 10 = (x - a)(x + 1)$$

$$x^2 - ax + a^2 - 2x + 2a - 10 = x^2 - (a+2)x + (a^2 + 2a - 10)$$

$$-a = -2 \rightarrow a = 2$$

$$a^2 + 2a - 10 = 1 \rightarrow a^2 + 2a - 11 = 0$$

$$a = \pm \sqrt{11}$$

2

5

$$x^2 - 14x + m = 0 \rightarrow \frac{-b}{a} = a + \beta \rightarrow a = \beta + 14 \rightarrow \frac{14}{1} = \beta + 14 \rightarrow \beta = 0$$

$$2\beta + 12 = 12 \rightarrow \beta = 0, a = 14 \rightarrow S = \frac{c}{a} = \frac{m}{14} = 1 \rightarrow m = 14$$

$m = 14, a = 14, \beta = 0$   $x^2 - 14x + 14 = 0$   $\Delta > 0 \checkmark$

1, 1, 5

3

$$x^2 - 4x + m - 1 = 0$$

$$4a - \beta = 1 \rightarrow \beta = 4a - 1 \rightarrow \frac{-b}{a} = 4 \rightarrow a + \beta = 4$$

$$a + 4a - 1 = 4 \rightarrow 5a = 5 \rightarrow a = 1$$

$$\beta = 4a - 1 = 3$$

$$m - 1 = 0 \rightarrow m = 1$$

$x^2 - 4x = 0$   $\Delta > 0 \checkmark$

1, 1, 5

4

$$-mx^2 + 4x + m - 1 = 0$$

$$AB = 1 \times \frac{1}{a} = 1 \rightarrow \frac{c}{a} = \frac{m-1}{-m} = 1$$

$$m^2 - 1 = m \rightarrow m^2 - m - 1 = 0 \rightarrow (m+1)(m-1) = 0 \rightarrow m = 1, -1$$

$m = 1 \rightarrow \Delta > 0 \checkmark$   $m = -1 \rightarrow \Delta < 0$   $\rightarrow m = 1$

5

5

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| $a^r - m + r = 0 \quad aB^r < r \rightarrow aB \times B < r \rightarrow r \times B < r \rightarrow B < \frac{r}{r} = 1, a < \frac{r}{r}$ $\frac{r}{r} + \frac{q}{r} < \frac{1q + rV}{1r} < \frac{r^r}{1r} = \frac{+m}{u} < \sqrt{\frac{m + \frac{r^r}{1r}}{1r}}$ $2r - \frac{r^r}{1r} + r = 0 \checkmark$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>✓</p> |
| $a^r - r + m = 0 \quad a < rB \rightarrow \frac{-b}{a} < 4 + B < r < rB + B \Leftrightarrow B < 1, a < r$ $aB < \frac{m}{1} = r \times 1 \rightarrow m < r$ $2r - r + r = 0 \checkmark$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>✓</p> |
| $a^r - Va + r = 0 \quad a^r + \frac{1}{a^r} \rightarrow \frac{c}{a} < r = aB \rightarrow aB^r < 1 \rightarrow a^r = \frac{1}{B^r}$ $a^r + \frac{1}{\frac{A}{B^r}} < a^r + B^r = r - r \times p < r \times r - r \times r =  r_0 $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>✓</p> |
| $h(t) = 1.0 \cdot t^r + 0.0 \cdot t \rightarrow \max_y \rightarrow \frac{-0}{2a} = \frac{b^r - fac}{-2a} = \frac{0.1}{r_1} = \frac{0.1 \times 10}{r_1} = 4110$ $-1.0 \cdot t^r + 0.0 \cdot t = 0 \rightarrow t^r - 0 + 0 = 0 \rightarrow t(t - \omega) = 0 \rightarrow t = 0 \text{ or } \omega$ $t = \omega, \quad y_{\max} = 4110$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>✓</p> |
| <p>4) <math>(a-1)^r = H+1</math></p> <p><math>(a-1)^r</math></p> <p><math>r+1 =</math></p> <p><math>(a-1)^r = r+1 \rightarrow</math></p> <p><math>a^r + 1 &lt; r+1</math></p> <p><math>a = 0</math></p> <p>5) <math>a^r + r =  a+r </math></p> <p><math>a^r + r =</math></p> <p><math> a+r  =</math></p> <p><math>a^r + r &lt;  a+r </math></p> <p>از مقدار</p> <p>نصف من بر سیم</p> <p>1-1</p> <p>2-1</p> <p>3-1</p> <p>4-1</p> <p>5-1</p> <p>6-1</p> <p>7-1</p> <p>8-1</p> <p>9-1</p> <p>10-1</p> <p>11-1</p> <p>12-1</p> <p>13-1</p> <p>14-1</p> <p>15-1</p> <p>16-1</p> <p>17-1</p> <p>18-1</p> <p>19-1</p> <p>20-1</p> <p>21-1</p> <p>22-1</p> <p>23-1</p> <p>24-1</p> <p>25-1</p> <p>26-1</p> <p>27-1</p> <p>28-1</p> <p>29-1</p> <p>30-1</p> <p>31-1</p> <p>32-1</p> <p>33-1</p> <p>34-1</p> <p>35-1</p> <p>36-1</p> <p>37-1</p> <p>38-1</p> <p>39-1</p> <p>40-1</p> <p>41-1</p> <p>42-1</p> <p>43-1</p> <p>44-1</p> <p>45-1</p> <p>46-1</p> <p>47-1</p> <p>48-1</p> <p>49-1</p> <p>50-1</p> <p>51-1</p> <p>52-1</p> <p>53-1</p> <p>54-1</p> <p>55-1</p> <p>56-1</p> <p>57-1</p> <p>58-1</p> <p>59-1</p> <p>60-1</p> <p>61-1</p> <p>62-1</p> <p>63-1</p> <p>64-1</p> <p>65-1</p> <p>66-1</p> <p>67-1</p> <p>68-1</p> <p>69-1</p> <p>70-1</p> <p>71-1</p> <p>72-1</p> <p>73-1</p> <p>74-1</p> <p>75-1</p> <p>76-1</p> <p>77-1</p> <p>78-1</p> <p>79-1</p> <p>80-1</p> <p>81-1</p> <p>82-1</p> <p>83-1</p> <p>84-1</p> <p>85-1</p> <p>86-1</p> <p>87-1</p> <p>88-1</p> <p>89-1</p> <p>90-1</p> <p>91-1</p> <p>92-1</p> <p>93-1</p> <p>94-1</p> <p>95-1</p> <p>96-1</p> <p>97-1</p> <p>98-1</p> <p>99-1</p> <p>100-1</p> | <p>✓</p> |