

$1-m \geq 0 \quad m \leq 1 \quad D_f = D_g$ $(1-m)^2 \geq 0 \rightarrow 1-m \geq 0 \rightarrow m \leq 1$ $m-1 = -(1-m) \quad f(m) = -(1-m)\sqrt{1-m} = -\sqrt{(1-m)^3}$ $m \leq 1$ $f = g$	4
$D_f: m \geq 0 \Rightarrow D_f = D_g$ $D_g: m \geq 0$ $m\sqrt{m} = \sqrt{m^3} \Rightarrow f = g$	✓
$D_{f(m)}: m \geq 0 \Rightarrow D_f = D_g$ $D_{g(1/f)}: m \geq 0$ $m = \frac{1}{f} \rightarrow f(\frac{1}{f}) = \frac{1}{f}$ $g(\frac{1}{f}) = 0 \Rightarrow f \neq g$	~
$f(1) = 2 \quad g(1) = 1 \quad \frac{2+1}{2-1} = 3$ مغز منفر $\Rightarrow$ تعریف نشده $f(2) = 3 \quad g(2) = 3$ $f(0) = 0 \quad g(-1) = 1$ $0 \times 1 = 0$	الف ب 9 ج
$g = \left\{ (1, 1), (-2, 4), \left(\frac{1}{4}, 5\right), \left(-\frac{1}{4}, 2\right), \left(\frac{4}{3}, 0-1\right) \right\}$ $h = \left\{ (-3, -1), (-2, 1), (0, 5), (2, 1), (2, -1) \right\}$	الف ب 10

پرتو بردار	تکلیف شماره	کلاس یازدهم دختر A پیشینه ۱۹-۲۱
۱		$f(a) = (a+1)^7 = 7a + 7$ $f(-2) = 3a - 4$ $2f(a) = f(-2) + a$ $14a + 14 = 3a - 4 + a$ $10a = -18$ $a = -1/8$
۲		$a = 2 - \sqrt{3} \quad ab = (2 - \sqrt{3})(2 + \sqrt{3}) = 4 - 3 = 1$ $b = 2 + \sqrt{3} \quad (\sqrt{a} + \sqrt{b})^2 = a + b + 2\sqrt{ab} = 6$ $\sqrt{a} + \sqrt{b} = \sqrt{6}$ $f(m) + f(b) = 2(\sqrt{a} + \sqrt{b}) + 4 = 2\sqrt{6} + 4$
۳		$2f(-n) - 3f(n) = 4n^2 + n$ $f(n) = -4n^2 - \frac{n}{2}$
۴		$n=0 \rightarrow 2f(0) = 3m - 1$ $n=-2 \rightarrow 2f(0) = 15 + 5m$ $f(0) = \frac{3m-1}{2}$ $2(3m-1) = 15 + 5m$ $m = \frac{9}{1}$ $f(0) = \frac{25}{2}$
۵		$f(n) + f\left(\frac{1}{n}\right) = 3n - 12 + \frac{3}{n}$ $an + b + \frac{a}{n} + b = 3n - 12 + \frac{3}{n}$ $a=3 \quad 2b = -12 \Rightarrow b = -6$ $f(n) = 3n - 6$ $f(-1) = -9$