1. If $f(x)=(6x+7)$, then find $f(8)$

   (i) 53 (ii) 57 (iii) 54 (iv) 55 (v) 56

2. If $f(x)=(7x+2)$ and $g(y)=(9y+8)$, then find $f(3), g(1)$

   (i) 24,18 (ii) 21,14 (iii) 23,17 (iv) 26,20 (v) 22,16

3. If f:A→B is defined by $f(x)=(9x+7)$ and A = {10,2,9,3},
   find the range

   (i) {97,25,88,34} (ii) {88,34,97} (iii) {34,106,84,25} (iv) {-9,88,25,34,14,97} (v) {97,23,34,88}

4. If $f(t)=(5t^2+5t+9)$ then find $f(4x-2)$

   (i) $(79x^2-60x+19)$ (ii) $(78x^2-60x+19)$ (iii) $(80x^2-60x+19)$ (iv) $(81x^2-60x+19)$

   (v) $(83x^2-60x+19)$

5. If $f(x)=(2x+5)$ and $g(x)=(6x^2+7x+4)$,
   find the value of $\frac{f(0)+f(2)+f(3)}{g(2)+g(3)+g(-3)}$

   (i) $\frac{25}{158}$ (ii) $\frac{27}{158}$ (iii) $\frac{23}{158}$ (iv) $\frac{5}{32}$ (v) $\frac{25}{156}$

6. Find the range of f:Z→Z where $f(x)=(7x+5)$
   and domain of f is {x : 2 ≤ x ≤ 6}

   (i) {26,33,40,47,17} (ii) {19,26,33,40,46} (iii) {19,33,40,47,28} (iv) {19,26,33,40,47}

   (v) {19,26,33,47,41}

7. Let f:R→R be a function defined by given conditions
   $f(x)=(5x+1)$ if x<-2
   $f(x)=(5x+3)$ if -2≤x≤6
   $f(x)=(8x+5)$ if x>6
   find $f(x)$ where x = -1

   (i) -3 (ii) -1 (iii) -2 (iv) -4

8. Find the range of f:Z→Z where $f(x)=(3x^2+x+4)$
   and domain of f is {x : 5 ≤ x ≤ 9}

   (i) {84,118,158,204,256} (ii) {118,158,204,256,86} (iii) {84,118,158,256,205} (iv) {84,118,204,256,156}

   (v) {84,158,204,256,117}

Assignment Key

1) (iv)	2) (iii)	3) (i)	4) (iii)	5) (i)	6) (iv)
7) (iii)	8) (i)				

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