A2.A.39: Domain and Range 1: Determine the domain and range of a function from its equation

1 What is the range of the relation $y = 2x^2 + 3x$ if the domain is the set $\{-2,-1,0\}$?
1) $\{2,1,0\}$
2) $\{2,-1,0\}$
3) $\{-1,-5,0\}$
4) $\{10,1,0\}$

2 If the domain of $f(x) = 2x + 1$ is $\{-2 \le x \le 3\}$, which integer is *not* in the range?
1) -4
2) -2
3) 0
4) 7

3 If the domain of $f(x) = 2x + 3$ is $\{-3 < x \le 0\}$, which number is *not* in the range?
1) -1
2) 0
3) 3
4) 6

4 The domain for $f(x) = 3x + 2$ is $-3 \le x \le 2$. The greatest value in the range of $f(x)$ is
1) -7
2) 2
3) 8
4) 11

5 The domain of $f(x) = x^2 + 2x + 1$ is $-3 \le x \le 3$. The largest value in the range of $f(x)$ is
1) 20
2) 16
3) 3
4) 4

6 A function is defined by the equation $y = 8x - 3$. If the domain is $2 \le x \le 4$, find the minimum value in the range of the function.

7 If the domain of $f(x) = x^2 + 1$ is limited to $\{0,1,2,3\}$, what is the maximum value of the range?

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Answer Section

1	ANS: 2	PTS: 2	REF: 088433siii
2	ANS: 1	PTS: 2	REF: 080132siii
3	ANS: 4	PTS: 2	REF: 080320siii
4	ANS: 3	PTS: 2	REF: 088924siii
5	ANS: 2	PTS: 2	REF: 089927siii
6	ANS: 13		
	PTS: 2	REF: 019013siii	
7	ANS: 10		
	PTS: 2	REF: 060209siii	