

## 정답 및 해설

1. ④ 108

$$f(g(3)) + g(f(3)) = f(11) + g(9) = 25 + 83 = 108$$

2. ⑤ 5

$$f^{-1}(5) = 20 \text{이면 } f(2) = 50 \text{ 이므로, } 8a + b = 5$$

3. ① 10

$$f(10) = \frac{11}{9}, \quad f\left(\frac{11}{9}\right) = 10$$

4. ②  $a+b$

$$f(a) = m, f(b) = n \text{ 일 때, } f^{-1}(x) = g(x) \text{ 에 대해 } g(m) = a, g(n) = b \text{ 가 성립}$$

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5.

$\theta$	0	$\frac{1}{6}\pi$	$\frac{1}{4}\pi$	$\frac{1}{3}\pi$	$\frac{1}{2}\pi$	$\pi$
$\cos \theta$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1
$\sin \theta$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0

6. [1, 2, 3, 4, 5]

7.  $x ** 2$

8. 1.0