

1.	$(x,y) = (1,3), (2,6), (3,9)$	5.	9	9.	D
2.	53	6.	$a^{2\frac{3}{4}}\sqrt{3}$	10.	15
3.	neither, they are equal	7.	$x = \frac{8\pi \cdot m}{5}, x = \frac{8\pi \cdot n}{3}$ m, n in \mathbf{Z} ; 20 solutions		
4.	1 : 2 : 3	8.	e.g. If one of a and b is greater than 1 and the other is between 0 and 1		