13.	A quadratic equation w	whose roots are (2 +	$\sqrt{3}$) and (2 –
	() 2 4 4 0	<i>a</i> .\	2 . 4 . 4

(a)
$$x^2 - 4x + 1 = 0$$

(b)
$$x^2 + 4x + 1 = 0$$

 $\sqrt{3}$) is:

(c)
$$4x^2 - 3 = 0$$

(d)
$$x^2 - 1 = 0$$

14. If $\tan \theta = \frac{5}{12}$, then the value of $\frac{\sin \theta + \cos \theta}{\sin \theta - \cos \theta}$ is:

(a)
$$-\frac{17}{7}$$

(b)
$$\frac{17}{7}$$

(c)
$$\frac{17}{13}$$

(d)
$$-\frac{7}{13}$$

15. If end points of a diameter of a circle are (-5, 4) and (1, 0), then the radius of the circle is:

(a) $2\sqrt{13}$ units

(b) $\sqrt{13}$ units

(c) $4\sqrt{2}$ units

(d) $2\sqrt{2}$ units

16. The number of polynomials having zeroes -1 and 2 is:

(a) exactly 2

(b) only 1

(c) at most 2

(d) infinite

17. The pair of equations ax + 2y = 9 and 3x + by = 18 represent parallel lines, where a, b are integers, if:

(a) a = b

(b) 3a = 2b

(c) 2a = 3b

(d) ab = 6

26. Find the mean of the following distribution:

Classes	0 – 15	15 – 30	30 - 45	45 – 60	60 - 75	75 – 90
Frequency	17	20	18	21	15	9

27. A 2-digit number is seven times the sum of its digits. The number formed by reversing the digits is 18 less than the given number. Find the given number.