

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD

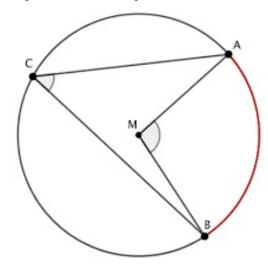


Marks: 1

Marks: 1

Class: 8 Subject: ALG/GEOM Term: FIRST TERM Max Marks: 60

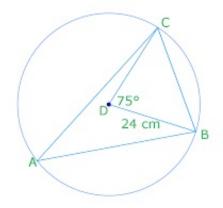
Q 1: If angle ACB=52°,then angle AMB=



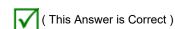
- 1. 102°
- **2.** 104°
- 3. 100°
- 4. none of these

(This Answer is Correct)

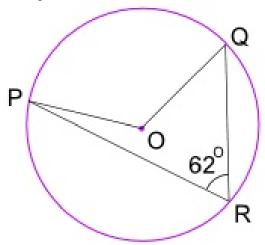
Q 2: Find angle CAB



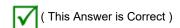
- **1** . 37.5°
- $2\;.\;\;37^\circ$
- 3. 38.5°
- 4. none of these



Q 3: Find angle POQ



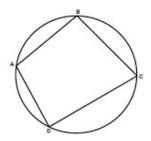
- 1. 128°
- 2. 126°
- **3.** 124°
- 4. none of these



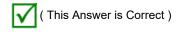
Marks: 1

Marks: 1

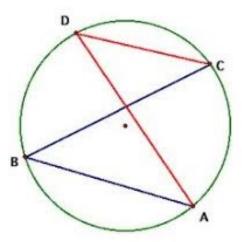
Q 4: In the given cyclic quadrilateral angle ABC=92°, find angle ADC



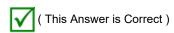
- 1. 90°
- 2 . 82°
- 3. 92°
- **4.** 88°



Q 5: If angle BCD=45°, then find angle BAD Marks: 1



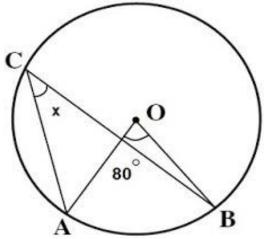
- 1. 40°
- **2** . 45°
- 3. 90°
- 4. none of these



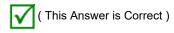
Marks: 1

Marks: 1

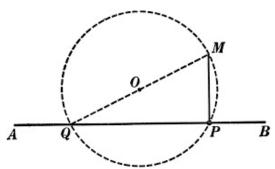
Q6: Find x.



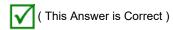
- 1. 30°
- **2.** 40°
- 3. 50°
- 4. none of these



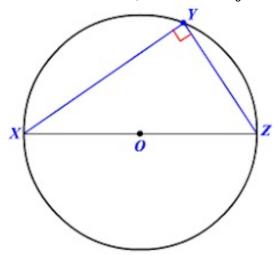
Q7: In the circle with centre O find the angle MPQ



- 1. 75°
- 2. 95°
- **3.** 90°
- 4. none of these



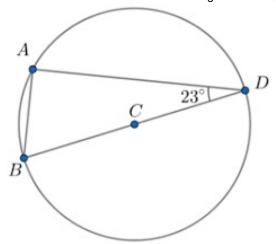
Q8: In the circle with centre O, find the sum of angles YXZ and YZX



- **1.** 90°
- 2. 80°
- 3. 60°
- 4. none of these

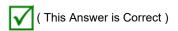
(This Answer is Correct)

 ${\bf Q}\,{\bf 9}$: $\,\,$ BD is the diameter of the circle. Find angle ABD if angle ADB=23° $\,$



Marks: 1

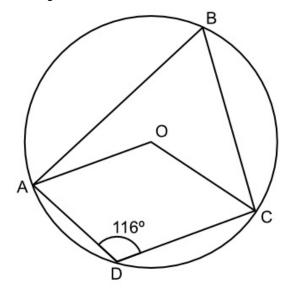
- 1. 57°
- **2**. 67°
- 3. 60°
- 4. none of these



Marks: 1

Marks: 1

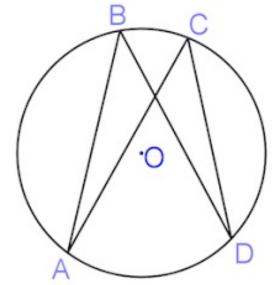
Q 10: Find angle ABC



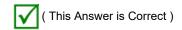
- **1.** 64°
- 2. 46°
- 3. 54°
- 4. none of these

(This Answer is Correct)

Q 11: If angle ABD=65°, find angle ACD

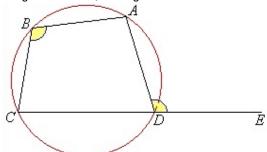


- 1. 60°
- 2. 130°
- **3.** 65°

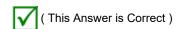


4. none of these





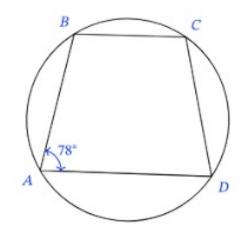
- 1. 70°
- **2**. 110°
- 3. 75°
- 4. none of these



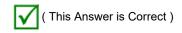
Marks: 1

Marks: 1

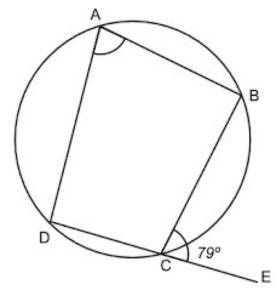
Q 13: Find angle BCD



- 1. 120°
- 2. 72°
- 3.78°
- **4** . 102°



Q 14: Find Angle BCD Marks: 1



- **1** . 101°
- 2. 79°
- 3.78°
- 4 . 100°

(This Answer is Correct)

Q 15: In a circle with centre O and radius 5 cm,AB is a chord of length 8 cm . If OM is perpendicular on AB, What is the length of OM?

- **1** . 3cm
- 2.6cm
- 3. 2.5 cm
- 4. none of these

(This Answer is Correct)

- Q 16: Find factors: -3m-15n
 - 1. 3(m+5n)
 - **2** . [-3(m+5n)]
 - 3. 3(m-5n)
 - 4. none of these

(This Answer is Correct)

Q 17: Find factor: a 3b+ab3

- 1. ab(a+b)
- 2. a2b(b+a)
- **3**. $ab(a^2+b^2)$
- 4. none of these

(This Answer is Correct)

Q 18: Find factors: $x^2y^2+x^2$

1. $x(y^2+1)$

Marks: 1

Marks: 1

Marks: 1

(This Answer is Correct) **2** . $x^2(y^2+1)$ $3. x^2(y^2+x^2)$ 4. none of these Marks: 1 Find fctors: ax+bx-ay-by Q 19: (This Answer is Correct) 1 . (a+b)(x-y) 2. (a-b)(x-y) 3. (a-b)(x+y)4. none of these Marks: 1 Find factors: (a+1)x + (a+1)yQ 20: (This Answer is Correct) **1** . (a+1)(x+y) 2. (a+x) (a+y) 3. (a+1) (x+1) 4. none of these Find factors: x(a+b) + y(a+b) + z(a+b)Marks: 1 Q 21: 1. (a+b+1) (x+y+1) 2. (a+x+z) (b+y+z) (This Answer is Correct) 3. (a+b) (x+y+z) 4. none of these Marks: 1 Find factors: a(m+n) +b (m+n) Q 22: 1. (a+b)(m-n) 2. (a-b)(m+n) 3. (a-b) (m-n) (This Answer is Correct) 4. (m+n) (a+b) Q 23: Find the factors: $(x+y)^2+(x+y)$ Marks: 1 1. (x+y) (x+y-1) 2. (x+1) (x+y+1) 3. (y+1) (x+y+1)(This Answer is Correct) **4** • (x+y)(x+y+1)

Find factors: 21x2y - 35xy2

Q 24:

Marks: 1

(This Answer is Correct)

- **1** 7xy(3x-5y)
- 2. yx(7x-5y)
- 3.7xy(3x+5y)
- 4. none of these

Q 25: Find factors: $1-x^2$

- 1. (1+x)(1+x)
- 2. (1-x)(1-x)
- **3**. (1-x)(1+x)
- 4. none of these

(This Answer is Correct)

Marks: 1

Marks: 1

Marks: 1

Marks: 1

Q 26: Which of the following is common factor of 5xy, 3pqr and 40 xyz

- 1. 5xy
- 2. xy
- 3. 3xy
- 4.1

(This Answer is Correct)

Q 27: Find factors: $28x^3-70x^2$

- 1. 14x²(2x+5)
- **2** . $14x^2(2x-5)$
- $3. 7x^2(4x+10)$
- 4. none of these

(This Answer is Correct)

(This Answer is Correct)

Q 28 : Find fctors : (a-2c) a + (a-2c)b + (a-2c)c

- **1** . (a-2c)(a+b+c)
- 2. (a+2c) (a+b-c)
- 3. (a+2c) (a+b+c)
- 4. (a+2c) (a-b-c)

Q 29: Find factors : a(x+y+z) + b(x+y+z) + c(x+y+z)

- 1. (a-b-c) (x+y+z)
- 2. (a+b+c)(x+y+z)
- 3. (a+b+c) (x-y-z)
- 4. none of these

Marks: 1

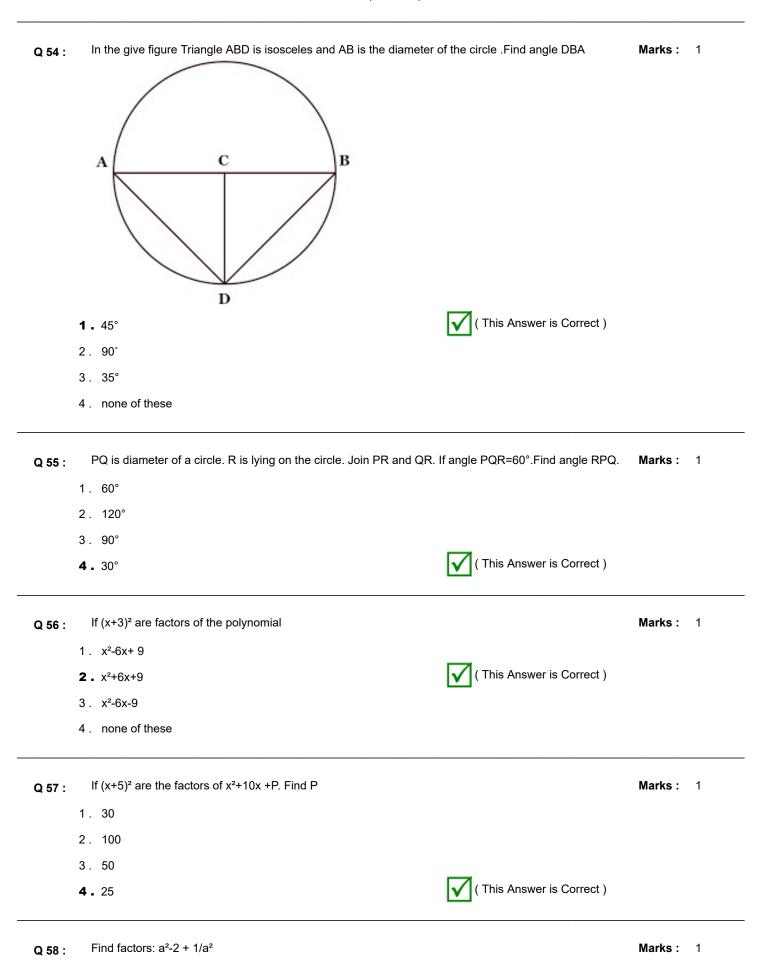
(This Answer is Correct)

Q 30 :	Find factors : (p+q) ² + 3(p+q)		Marks:	1
	1 . 3(p+q)(p+q+1)			
	2 . (p+q) (3-p-q)			
	3. (p+q) (p+q+3)	(This Answer is Correct)		
	4 . none of these			
Q 31 :	Find factors : x^4 + 6x²+9		Marks :	1
	1 . $(x^2+3)^2$	(This Answer is Correct)		
	2. (x²-3)²	-		
	3. (x-3) ²			
	4. (x+3) ²			
Q 32 :	Factorise: x²/25 - y²/36		Marks :	1
	1 . (x/6+y/5) (x/6-y/5)			
	2 . (x/5+y/6) (x/5-y/6)	(This Answer is Correct)		
	3. (x/5+y/6) ²			
	4 . none of these			
Q 33 :	Factorise: 4x²-4x+1		Marks :	1
	1. (2x+1)²			
	2 . (2x²-1)²			
	3. (2x-1) ²	(This Answer is Correct)		
	4. (2x²+1)²			
Q 34 :	Factorise: -64 + 25 x ²		Marks :	1
	1. (5x+8)²			
	2 . (5x+8) (5x-8)	(This Answer is Correct)		
	3. (8+5x)(8-5x)			
	4 . none of these			
Q 35 :	One of the factors of 3m²-48 is		Marks :	1
	1.3	(This Answer is Correct)		
	2. 3m	_		
	3. 3m²			
	4 . none of these			

Q 36 :	Factorise: (x³)²- 16		Marks:	1
	1. $(x^2+4)(x^2-4)$			
	2 . $(x^3+4)(x^3-4)$	(This Answer is Correct)		
	$3. (x^3-4)^2$			
	4 . none of these			
Q 37 :	Find value of 102x 98 by using identities.		Marks :	1
	1. 998			
	2. 996			
	3. 9986			
	4. 9996	(This Answer is Correct)		
Q 38 :	Factorise 25a²+5ab		Marks :	1
	1 . 5(5a+b)			
	2 • 5a(5a+b)	(This Answer is Correct)		
	3 . 5b(5b+a)			
	4 . 5ab(a+b)			
Q 39 :	Find factors : 6a+18		Marks :	1
	1 . 6(a+3)	(This Answer is Correct)		
	2 . 6(a-3)			
	3 . 3(2a²+3)			
	4. none of these			
Q 40 :	Factorise: (x+5)x + (x+5)y		Marks :	1
	1 . (x-5)(x-y)			
	2 . (x-5)(x+y)			
	3 . (x+5)(x+y)	(This Answer is Correct)		
	4 . none of these			
Q 41 :	Factorise : -50a²- 10b		Marks :	1
	1 . 10(a+b)			
	2 . [-10(5a ² +b)]	(This Answer is Correct)		
	3 . 10 (a²+b)			
	4 . 10(5a²+b)			

Q 42 :	Factorise : 6p+12pq		Marks:	1
	1 . 6(p+q)			
	2 . 6pq(p+1)			
	3 . 6q(p+q)			
	4 . 6p(1+2q)	(This Answer is Correct)		
Q 43 :	Measure of angle in a semi circle is always		Marks :	1
	1. 45°			
	2. 60°			
	3. 90°	(This Answer is Correct)		
	4 . none of these			
Q 44 :	measures of angles in the semicircle are always		Marks :	1
	1 . in the ratio 2:1			
	2. equal	(This Answer is Correct)		
	3 . complementary			
	4 . supplementary			
Q 45 :	The sum of opposite sides of a cyclic quadrilateral is always	<u>.</u>	Marks :	1
	1. 90°			
	2 . 360°			
	3. 180°	(This Answer is Correct)		
	4 . none of these			
Q 46 :				
Q 40 :	A chord divides the circumference into two parts. Smaller part is ca	alled	Marks :	1
¥ 40 :	A chord divides the circumference into two parts. Smaller part is ca	alled (This Answer is Correct)	Marks :	1
Q 40 :			Marks :	1
u 40 :	1 . minor arc		Marks :	1
W 40 :	1 • minor arc 2 · major arc		Marks :	1
Q 46 :	 minor arc major arc minor segment 		Marks :	1
	 minor arc major arc minor segment major segment 			
	 minor arc major arc minor segment major segment A chord divides a circle into two parts. The larger part is called			
	 minor arc major arc minor segment major segment A chord divides a circle into two parts. The larger part is called major arc 			
	 minor arc major arc minor segment major segment A chord divides a circle into two parts. The larger part is called major arc minor segment 	(This Answer is Correct)		

Q 48 :	In a circle length of a chord MN is 12 cm, a perpendicular is drawn from the centre on MN at P.Find length of MP.		Marks :	1
	1 . 5cm			
	2 . 6cm	(This Answer is Correct)		
	3 . 12 cm			
	4. 4cm			
Q 49 :	In a circle angle made by an arc at the centre of a circle is at the remaining part of the circumference.	the angle which this arc makes	Marks :	1
	1. thrice			
	2. half			
	3. equal			
	4. twice	(This Answer is Correct)		
Q 50 :	The perpendicular from the centre of a circle to a chord		Marks :	1
	1 . bisects the chord	(This Answer is Correct)		
	2 . divides the chord into two unequal parts			
	3 . trisect the chord			
	4 . none of these			
Q 51 :	Find factors 7x-14y		Marks :	1
	1 . 7(x-2y)	(This Answer is Correct)		
	2 . 7(x+2y)	_		
	3 . 7(x-y)			
	4 . none of these			
Q 52 :	Factoris : 9p²- 64r²		Marks :	1
	1 . (3p+8r)(3p-8r)	(This Answer is Correct)		
	2 . (8p+3r) (8p-3r)			
	3 . (3p-8r) ²			
	4 . none of these			
Q 53 :	Factorise : 65 a²b²-13ab		Marks :	1
	1 . 13(5a²b²-1)			
	2 . 13ab(5ab-1)	(This Answer is Correct)		
	3 . 13ab(5ab+1)	_		
	4 . 13a(5b-a)			



3. 4x

4. none of these

1. (a+1/a) 2. (a-1/a) (This Answer is Correct) **3** . (a-1/a)² 4. (a+1/a)² If $(a+5b)^2$ are factors of a polynomial $a^2+10ab+M$. Find M Marks: 1 Q 59: 1. 100 b² 2. 25 3. 25a² (This Answer is Correct) 4. 25b² If $(2x+5y)^2$ are the factors of polynomial A + $20xy + 25y^2$. Find A Marks: 1 Q 60: (This Answer is Correct) 1. 4x² $2. 16x^2$