



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

Algebra (Exercise)

Multiple Choice Questions

Ques. 1: If $a+b = 20$ and $ab = 96$, then a^2+b^2 is equal to

- ☐
- ☐
- ☐
- ☐

Ques. 2: If $x^2 - 7x + 12 = 0$, then x is equal to

- ☐
- ☐
- ☐
- ☐

Ques. 3: If $a-b = 6$ and $ab = 16$, then a^2+b^2 is equal to

- ☐
- ☐
- ☐
- ☐





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Ques. 8: If $a^2 + b^2 = 50$ and $ab = 24$, then $(a+b)^2$ is

- ☐
- ☐
- ☐
- ☐

Ques. 9: If $x^2 - 9 = 0$, then $|x|$ is

- ☐
- ☐
- ☐
- ☐

Ques. 10: If $a+b = 7$ and $ab = 10$, then $a^3 + b^3$ is

- ☐
- ☐
- ☐
- ☐

Ques. 11: If $x+y = 11$ and $xy = 24$, then $x^2 + y^2$ is

- ☐
- ☐
- ☐
- ☐



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Ques. 12: •, ' $(x^2 + y^2 = 20)$, " $(xy = 6)$, †" $((x+y)^2)$ „Š†•• ‡" f•–

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- ☐
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- ☐

†"

$(x^2 + y^2 = 20)$ {x}ã" × eÂ , Â

•, ' „

Ques. Q2:

$(x^2 + y^2 = 20)$ {x} , "ã%Â ,



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Ques. 16: If $x + y = 8$ and $xy = 15$, then $x^2 + y^2$ is equal to

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Ques. 17: If $a + b = 12$ and $a - b = 4$, then ab is equal to

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Ques. 18: If $x - \frac{1}{x} = 4$, then $x^2 + \frac{1}{x^2}$ is equal to

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Ques. 19: If $a + b = 10$ and $ab = 21$, then $a^2 + b^2$ is equal to

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Ques. 20: If $\left(x + \frac{1}{x}\right)^5 = 5$, then $\left(x^2 + \frac{1}{x^2}\right)^5$ is equal to

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Multiple Choice Questions

Ques. 1: If $a+b = 20$ and $ab = 96$, then $a^2 + b^2$ is equal to

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Ques. 2: If $x^2 - 7x + 12 = 0$, then $|x|$ is equal to

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Ques. 3: If $a - b = 6$ and $ab = 16$, then $a^2 + b^2 =$?

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Ques. 4: If $x + \frac{1}{x} = 3$, then $x^2 + \frac{1}{x^2} =$?

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Ques. 5: If $a + b = 15$ and $a^2 + b^2 = 113$, then $ab =$?

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Ques. 6: If $x + y = 9$ and $x - y = 5$, then $xy =$?

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Ques. 7: If $x^2 + 4x + 4 = 0$, then $|x|$ is equal to

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Ques. 8: If $a^2 + b^2 = 50$ and $ab = 24$, then $(a+b)^2$ is equal to

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Ques. 9: If $x^2 - 9 = 0$, then $|x|$ is equal to

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Ques. 10: If $a+b = 7$ and $ab = 10$, then $a^3 + b^3$ is equal to

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Ques. 11: If $x + y = 11$ and $xy = 24$, then $x^2 + y^2 =$?

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Ques. 12: If $x^2 + y^2 = 20$ and $xy = 6$, then $(x + y)^2 =$?

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Ques. 13: If $x^2 - 5x + 6 = 0$, then $|x|$ is ?

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Ques. 14: If $a^2 + b^2 = 29$ and $ab = 10$, then $(a + b)^2 =$?

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Ques. 15: If $\left(x + \frac{1}{x}\right)^7 = 7$, then $\left(x^3 + \frac{1}{x^3}\right)^5$ is equal to

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Ques. 16: If $x + y = 8$ and $xy = 15$, then $x^2 + y^2$ is equal to

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Ques. 17: If $a + b = 12$ and $a - b = 4$, then ab is equal to

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Ques. 18: If $\left(x - \frac{1}{x}\right)^4 = 4$, then $\left(x^2 + \frac{1}{x^2}\right)^5$ is equal to



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- ☐
- ☐
- ☐

Ques. 19: If $a+b = 10$ and $ab = 21$, then $a^2 + b^2$ is equal to

- ☐
- ☐
- ☐
- ☐

Ques. 20: If $x + \frac{1}{x} = 5$, then $x^2 + \frac{1}{x^2}$ is equal to

- ☐
- ☐
- ☐
- ☐