



Questions?  
Ask a live tutor now!

Ask Question 

Factor  $x^2 + 2x + 1$

Question

Answer

$$x^2 + 2x + 1$$

$$(\color{blue}{x})^2 + 2(\color{blue}{x})(\color{blue}{1}) + (\color{blue}{1})^2$$

$$\boxed{(\color{blue}{x} + \color{blue}{1})^2}$$

## 10. Factorization

- [Factoring integer numbers](#)
- [Factoring quadratic polynomi...](#)
- [AC method](#)
- [Perfect-square trinomial](#)
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Questions?  
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Ask Question 

Factor  $25x^2 + 30x + 9$

Question

$$25x^2 + 30x + 9$$

Answer

$$(5x)^2 + 2(5x)(3) + (3)^2$$

$$(5x + 3)^2$$

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Questions?  
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Ask Question 

Factor  $x^2 + 14x + 49$

Question

Answer

$$x^2 + 14x + 49$$

$$(x)^2 + 2(x)(7) + (7)^2$$

$$(x + 7)^2$$

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Questions?  
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Ask Question 

Factor  $9x^2 + 54x + 81$

Question

$$9x^2 + 54x + 81$$

Answer

$$9(x^2 + 6x + 9)$$

$$9[(x)^2 + 2(x)(3) + (3)^2]$$

$$9(x + 3)^2$$

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Questions?  
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Ask Question

Factor  $9x^2 + 12x + 4$

Question

Answer

$$9x^2 + 12x + 4$$

$$(3x)^2 + 2(3x)(2) + (2)^2$$

$$(3x + 2)^2$$

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Questions?  
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Ask Question 

Factor  $x^2 + 12x + 36$

Question

Answer

$$x^2 + 12x + 36$$

$$(x)^2 + 2(x)(6) + (6)^2$$

$$(x + 6)^2$$

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