SASKATCHEWAN FOUNDATIONS OF MATHEMATICS 20 · UNIT F

Quadratic Functions — Practice Test

Saskatchewan Foundations of Mathematics 20 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The axis of symmetry of $3(x + 2)^2 + 1$ is**

- **A** x = -2
- **B** x = 2
- **C** x = 1
- **D** y = -2

Understand It with Pulse | Flag a mistake

2 **The factored form of $x^2 - 6x + 8$ is**

- **A** $(x + 4)(x + 2)$
- **B** $(x - 4)(x - 2)$
- **C** $(x - 4)(x + 2)$
- **D** $(x + 4)(x - 2)$

Understand It with Pulse | Flag a mistake

3 **The vertex of $y = (x + 1)^2 + 2$ is**

- **A** $(1, 2)$
- **B** $(-1, -2)$
- **C** $(-1, 2)$
- **D** $(1, -2)$

Understand It with Pulse | Flag a mistake

4 **Solve : $x^2 = 64$. The positive root is**

ANSWER

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5 **The y-intercept of $y = x^2 - 3x + 4$ is**

ANSWER

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6 **The axis of symmetry of $1(x + 2)^2 + 1$ is**

A $x = 2$

B $x = 1$

C $y = -2$

D $x = -2$

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7 **The factored form of $x^2 - 3x - 4$ is**

- **A** $(x + 4)(x - 1)$
- **B** $(x - 4)(x + 1)$
- **C** $(x - 4)(x - 1)$
- **D** $(x + 4)(x + 1)$

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8 **The vertex of $y = (x + 2)^2 + 4$ is**

- **A** $(-2, 4)$
- **B** $(2, 4)$
- **C** $(-2, -4)$
- **D** $(2, -4)$

Understand It with Pulse | Flag a mistake

9 **Solve : $x^2 = 16$. The positive root is**

ANSWER _____

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10 **The y-intercept of $y = x^2 - 3x + 5$ is**

ANSWER _____

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11 **The axis of symmetry of $1(x - 4)^2 + 1$ is**

A. $x = 4$

B. $x = -4$

C. $x = 1$

D. $y = 4$

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12 **The factored form of $x^2 + 7x + 10$ is**

- A $(x - 2)(x - 5)$
- B $(x + 2)(x - 5)$
- C $(x + 2)(x + 5)$
- D $(x - 2)(x + 5)$

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13 **The vertex of $y = (x - 4)^2 - 4$ is**

- A $(-4, -4)$
- B $(4, 4)$
- C $(-4, 4)$
- D $(4, -4)$

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14 **Solve : $x^2 = 25$. The positive root is**

ANSWER

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15 **The axis of symmetry of $2(x + 4)^2 + 1$ is**

A $x = -4$

B $x = 4$

C $x = 1$

D $y = -4$

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16 **The factored form of $x^2 + 7x + 12$ is**

A (x - 4)(x - 3)

B (x + 4)(x + 3)

C (x + 4)(x - 3)

D (x - 4)(x + 3)

Understand It with Pulse | Flag a mistake

17 **The vertex of $y = (x + 1)^2 - 1$ is**

A (1, -1)

B (-1, 1)

C (-1, -1)

D (1, 1)

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18 **Solve : $x^2 = 81$. The positive root is**

ANSWER

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19 **The axis of symmetry of $3(x - 2)^2 + 1$ is**

A $x = -2$

B $x = 1$

C $x = 2$

D $y = 2$

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20 **The factored form of $x^2 - 3x + 2$ is**

- A $(x + 1)(x + 2)$
- B $(x - 1)(x + 2)$
- C $(x + 1)(x - 2)$
- D $(x - 1)(x - 2)$

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21 **The vertex of $y = (x + 2)^2 + 3$ is**

- A $(2, 3)$
- B $(-2, -3)$
- C $(-2, 3)$
- D $(2, -3)$

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22 **Solve : $x^2 = 49$. The positive root is**

ANSWER

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23 **The axis of symmetry of $1(x - 2)^2 + 1$ is**

A $x = 2$

B $x = -2$

C $x = 1$

D $y = 2$

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24 **The factored form of $x^2 + 1x - 12$ is**

A (x - 3)(x + 4)

B (x + 3)(x - 4)

C (x - 3)(x - 4)

D (x + 3)(x + 4)

Understand It with Pulse | Flag a mistake

25 **The vertex of $y = (x - 1)^2 - 1$ is**

A (-1, -1)

B (1, 1)

C (-1, 1)

D (1, -1)

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ANSWER KEY

1.	A	**10.**	5	**19.**	C
2.	B	**11.**	A	**20.**	D
3.	C	**12.**	C	**21.**	C
4.	8	**13.**	D	**22.**	7
5.	4	**14.**	5	**23.**	A
6.	D	**15.**	A	**24.**	A
7.	B	**16.**	B	**25.**	D
8.	A	**17.**	C		
9.	4	**18.**	9		

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