

**Determine if the equation shown represents a linear function (yes) or not (no).****Answers**

1)  $Y = \sqrt{X^2 - 9}$

2)  $Y = -X - 6$

3)  $Y = 3 - X$

4)  $Y = \sqrt{X^2 - 3}$

5)  $Y = \sqrt{X^2 - 7}$

6)  $Y = \sqrt{X^2 - 9}$

7)  $Y = \sqrt{X^2 - 3}$

8)  $Y = -X$

9)  $Y = \frac{X}{2} \times 5$

10)  $Y = 2 + X$

11)  $Y = \sqrt{X^2 - 7}$

12)  $Y = X - 6$

13)  $Y = \sqrt{X^2 - 4}$

14)  $Y = \sqrt{X^2 - 8}$

15)  $Y = -X + 6$

16)  $Y = 2 \times X + 5^2$

17)  $Y = 6 \times X - (X \times -1)$

18)  $Y = X + 5$

19)  $Y = \sqrt{X^2 - 9}$

20)  $Y = \sqrt{X^2 - 2}$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

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15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_



Determine if the equation shown represents a linear function (yes) or not (no).

Answers

|                                      |                |
|--------------------------------------|----------------|
| 1) $Y = \sqrt{X^2 - 9}$              | 1. <b>no</b>   |
| 2) $Y = -X - 6$                      | 2. <b>yes</b>  |
| 3) $Y = 3 - X$                       | 3. <b>yes</b>  |
| 4) $Y = \sqrt{X^2 - 3}$              | 4. <b>no</b>   |
| 5) $Y = \sqrt{X^2 - 7}$              | 5. <b>no</b>   |
| 6) $Y = \sqrt{X^2 - 9}$              | 6. <b>no</b>   |
| 7) $Y = \sqrt{X^2 - 3}$              | 7. <b>no</b>   |
| 8) $Y = -X$                          | 8. <b>yes</b>  |
| 9) $Y = \frac{X}{2} \times 5$        | 9. <b>yes</b>  |
| 10) $Y = 2 + X$                      | 10. <b>yes</b> |
| 11) $Y = \sqrt{X^2 - 7}$             | 11. <b>no</b>  |
| 12) $Y = X - 6$                      | 12. <b>yes</b> |
| 13) $Y = \sqrt{X^2 - 4}$             | 13. <b>no</b>  |
| 14) $Y = \sqrt{X^2 - 8}$             | 14. <b>no</b>  |
| 15) $Y = -X + 6$                     | 15. <b>yes</b> |
| 16) $Y = 2 \times X + 5^2$           | 16. <b>yes</b> |
| 17) $Y = 6 \times X - (X \times -1)$ | 17. <b>yes</b> |
| 18) $Y = X + 5$                      | 18. <b>yes</b> |
| 19) $Y = \sqrt{X^2 - 9}$             | 19. <b>no</b>  |
| 20) $Y = \sqrt{X^2 - 2}$             | 20. <b>no</b>  |