

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

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

2)  $Y = -X \times 9$

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

4)  $Y = \frac{X}{7} \times 5$

5)  $Y = -X$

6)  $Y = -X - 5$

7)  $Y = 3 \times X - (X \times -1)$

8)  $Y = X + 5$

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

10)  $Y = 5 + \frac{X}{4}$

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

12)  $Y = 6 - X$

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

14)  $Y = -X + 2$

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

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

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

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

19)  $Y = 3 \times X - (X + 5)$

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

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



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

Answers

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