

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

1)  $Y =$

$\sqrt{X^2-3}$

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

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

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

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

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

7)  $Y =$

$\sqrt{X^2-3}$

8)  $Y = 4 \times X - (X+5)$

9)  $Y = X + 3$

10)  $Y = X - 7$

11)  $Y =$

$\sqrt{X^2-5}$

12)  $Y = 9 - X$

13)  $Y = -X \times 9$

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

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

16)  $Y = \frac{X}{3} \times 5$

17)  $Y = 9 + X$

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

19)  $Y = -X + 9$

20)  $Y = \frac{X}{5}$

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

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

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

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

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

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

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

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

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

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

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

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

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

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

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

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



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

Answers

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