



Identify Functions (Equations)

Name: _____

Determine if each equation describes a function (yes) or not (no). In the equation x represents the input and y represents the output.

Answers

1) $y^7 = x^8$

2) $y^{-4} = x - 9$

1. _____

3) $y^8 = 2 \div x$

4) $x + 2 = y^4$

2. _____

3. _____

5) $x = 2 + y$

6) $y \times 7 = x$

4. _____

5. _____

7) $x - 2 = y^2$

8) $y^5 = 2 \times x$

6. _____

7. _____

9) $y^{-6} = x \times 3$

10) $y^{-4} = x \div 2$

8. _____

9. _____

11) $x = 7 - y$

12) $y^4 = 2 \times x$

10. _____

11. _____

13) $y = -6$

14) $y = 7$

12. _____

13. _____

15) $x = -9$

16) $y = 9 \div x$

14. _____

15. _____

17) $y^{-4} = x$

18) $y^{-6} + 3 = x$

16. _____

17. _____

19) $y^2 + x = 5$

20) $6y = 2x$

18. _____

19. _____

20. _____



Identify Functions (Equations)

Name: **Answer Key**

Determine if each equation describes a function (yes) or not (no). In the equation x represents the input and y represents the output.

Answers

1) $y^7 = x^8$

2) $y^{-4} = x - 9$

1. yes

3) $y^8 = 2 \div x$

4) $x + 2 = y^4$

2. no3. no

5) $x = 2 + y$

6) $y \times 7 = x$

4. no5. yes

7) $x - 2 = y^2$

8) $y^5 = 2 \times x$

6. yes7. no

9) $y^{-6} = x \times 3$

10) $y^{-4} = x \div 2$

8. yes9. no

11) $x = 7 - y$

12) $y^4 = 2 \times x$

10. no11. yes

13) $y = -6$

14) $y = 7$

12. no13. yes

15) $x = -9$

16) $y = 9 \div x$

14. yes15. no

17) $y^{-4} = x$

18) $y^{-6} + 3 = x$

16. yes17. no

19) $y^2 + x = 5$

20) $6y = 2x$

18. no19. no20. yes