

Identify the hypothesis and conclusion of each conditional.

2. If you want to be fit, then you want to get plenty of exercise.

x^2 3. Algebra If $x + 20 = 32$, then $x = 12$.

Write each sentence as a conditional.

9. Glass objects are fragile.

x^2 10. Algebra $3x - 7 = 14$ implies that $3x = 21$.

11. Whole numbers that have 2 as a factor are even.

12. All obtuse angles have measure greater than 90.

13. Good weather makes a picnic enjoyable.

14. Two skew lines do not lie in the same plane.

Show that each conditional is false by finding a counterexample.

15. If it is not a weekday, then it is Saturday.

16. Odd integers less than 10 are prime.

17. If you live in a country that borders the United States, then you live in Canada.

18. If you play a sport with a ball and a bat, then you play baseball.

Draw a Venn diagram to illustrate each statement.

19. If you live in New England, then you live in the United States.

20. If you play the flute, then you are a musician.

21. If an angle has measure 40, then it is acute.

22. Carrots are vegetables.