

1. Which expression is a like function for the graph of the probability?

- a.  $f(x) = 2x + 1$     b.  $f(x) = x^2 + 1$     c.  $f(x) = x^2 + 2x + 1$     d.  $f(x) = x^2 + 1$

2. The energy of a moving particle is known to follow

- a.  $E = mv^2$     b.  $E = mv$     c.  $E = mv^3$     d.  $E = mv^4$

3. The flow of thermal energy from a hotter object to a cooler object is called

- a. heat    b. convection    c. radiation    d. energy

4. To increase the temperature difference of water in two vessels, you should

- a. increase the surface area    b. decrease it  
c. stir    d. insulate

5. How does thermal energy flow through?

- a. conduction    b. convection    c. radiation    d. conduction

6. Which material would NOT have conduction?

- a. aluminum    b. steel    c. glass    d. plastic

7. Radiation is used in the walls of a building to

- a. trap solar energy  
b. trap solar thermal energy through the walls  
c. trap thermal energy from energy through the walls  
d. reflect thermal energy

8. A temperature measurement of hot gas is made by

- a. radiation    b. conduction    c. convection    d. convection

9. Heat energy is transferred by conduction

- a. conduction    b. convection    c. radiation    d. radiation

10. Which aspect of wind causes the cooling effect in summer days. In this case, wind is produced by

- a. radiation    b. radiation    c. convection    d. convection