

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

- a. $f(x) = 2x^2 - 3x + 1$ b. $f(x) = 2x^2 + 3x + 1$ c. $f(x) = 2x^2 - 3x - 1$ d. $f(x) = 2x^2 + 3x - 1$

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. thermal 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? (a) The wind is not humidified by

- a. evaporation b. condensation c. convection d. convection