Name: _____

Comparing Functions

Compare the rates of change.

1. Function A: y = 14x + 10. Function B has these values: x = 0, 1, 2 and y = 16, 23, 30. Which has the greater rate of change?

   Answer: _____

2. Function A: y = 10x + 15. Function B has these values: x = 0, 1, 2 and y = 19, 30, 41. Which has the greater rate of change?

   Answer: _____

3. Function A: y = 10x + 19. Function B has these values: x = 0, 1, 2 and y = 1, 12, 23. Which has the greater rate of change?

   Answer: _____

4. Function A: y = 13x + 8. Function B has these values: x = 0, 1, 2 and y = 6, 16, 26. Which has the greater rate of change?

   Answer: _____

5. Function A: y = 2x + 8. Function B has these values: x = 0, 1, 2 and y = 16, 22, 28. Which has the greater rate of change?

   Answer: _____

6. Function A: y = 11x + 8. Function B has these values: x = 0, 1, 2 and y = 11, 13, 15. Which has the greater rate of change?

   Answer: _____

7. Function A: y = 13x + 1. Function B has these values: x = 0, 1, 2 and y = 7, 16, 25. Which has the greater rate of change?

   Answer: _____

8. Function A: y = 8x. Function B has these values: x = 0, 1, 2 and y = 15, 26, 37. Which has the greater rate of change?

   Answer: _____

9. Function A: y = 2x + 15. Function B has these values: x = 0, 1, 2 and y = 0, 14, 28. Which has the greater rate of change?

   Answer: _____

10. Function A: y = 12x + 6. Function B has these values: x = 0, 1, 2 and y = 1, 5, 9. Which has the greater rate of change?

    Answer: _____

Name: **ANSWER KEY**

Comparing Functions

Compare the rates of change.

1. Function A: y = 14x + 10. Function B has these values: x = 0, 1, 2 and y = 16, 23, 30. Which has the greater rate of change?

Answer: Function A

2. Function A: y = 10x + 15. Function B has these values: x = 0, 1, 2 and y = 19, 30, 41. Which has the greater rate of change?

Answer: Function B

3. Function A: y = 10x + 19. Function B has these values: x = 0, 1, 2 and y = 1, 12, 23. Which has the greater rate of change?

Answer: Function B

4. Function A: y = 13x + 8. Function B has these values: x = 0, 1, 2 and y = 6, 16, 26. Which has the greater rate of change?

Answer: Function A

5. Function A: y = 2x + 8. Function B has these values: x = 0, 1, 2 and y = 16, 22, 28. Which has the greater rate of change?

Answer: Function B

6. Function A: y = 11x + 8. Function B has these values: x = 0, 1, 2 and y = 11, 13, 15. Which has the greater rate of change?

Answer: Function A

7. Function A: y = 13x + 1. Function B has these values: x = 0, 1, 2 and y = 7, 16, 25. Which has the greater rate of change?

Answer: Function A

8. Function A: y = 8x. Function B has these values: x = 0, 1, 2 and y = 15, 26, 37. Which has the greater rate of change?

Answer: Function B

9. Function A: y = 2x + 15. Function B has these values: x = 0, 1, 2 and y = 0, 14, 28. Which has the greater rate of change?

Answer: Function B

10. Function A: y = 12x + 6. Function B has these values: x = 0, 1, 2 and y = 1, 5, 9. Which has the greater rate of change?

Answer: Function A