Question 1

x and y vary directly. Use the given values to write an equation that relates x and y: x = 12 and y = 18

Answer A:

Question 2

x and y vary directly. Use the given values to write an equation the relates x and y: x = 24 and y = 20

Answer B: 3x + 1

Question 3:

x and y vary inversely. Write and equation that relates x and y for the given values: x = 1.5,

y = 50

Answer C: ±3

Question 4:

x and y vary inversely. Write an equations that relates x and y when

x = 65 and y = .

Answer D:

Question 5:

Simplify:

Answer E:

Question 6:

Simplify:

Answer F:

Question 7:

For what values is the rational expression undefined?

Answer G:

Question 8:

For what values is the rational expression undefined?

Answer H:

Question 9:

Simplify:

Answer I:

Question 10:

Simplify:

Answer J:

Question 11:

Simplify:

Answer K:

Question 12:

Simplify:

Answer L:

Question 13:

Simplify:

Answer M:

Question 14:

Simplify:

Answer N:

Question 15:

The area of a rectangle is 6x2 – 13x – 5 and the width is 2x – 5. Find the length.

Answer O:

Key:

1. D

2. O

3. H

4. N

5. B

6. K

7. E

8. L

9. C

10. G

11. M

12. A

13. J

14. F

15. I