

Name:
 Teacher:
 Period:
 Due Date:

11.) Simplify the expression:

$$\left(\frac{1}{n-1} + \frac{1}{n} + \frac{1}{n+1}\right)$$

- a. $\frac{1}{n^3-n}$
- b. $\frac{3n^2-1}{n^3-n}$
- c. $\frac{3}{n^3-n}$
- d. $\frac{3n-1}{n^3-n}$
- e. $\frac{1}{n}$

12.) If $\frac{-2x+y}{3} = 6y$, then $\frac{x}{y} = ?$

- a. -34
- b. -9
- c. $-\frac{17}{2}$
- d. $-\frac{1}{2}$
- e. $-\frac{1}{8}$

13.) If $y = z - 4x + 3xy$, then $x = ?$

- a. $\frac{y-z}{7}$
- b. $\frac{y-z}{7y}$
- c. $\frac{y-z}{3y-4}$
- d. $\frac{y-z}{12y}$
- e. $\frac{3y^2z}{-4}$

14.) If $9w - 5 = 4x + 7xw$, then $w = ?$

- a. $\frac{4x+5}{9-7x}$
- b. $\frac{4x+7xw}{4x+5}$
- c. $\frac{4}{2}$
- d. $\frac{9}{7x}$
- e. $\frac{5}{x} - 4x$

15.) Which of the following is equivalent to the expression:

$$\frac{1}{n} + \frac{3n}{n+1} - 2$$

- a. $\frac{3n-1}{2n+1}$
- b. $\frac{3n^2-1}{n^2+n}$
- c. $\frac{2n^2-1}{n^2+n}$
- d. $\frac{n^2+n+1}{n^2+n+1}$
- e. $\frac{n^2+n}{n^2-n+1}$

16.) If $3r + 5q = 7qr - 5$, then $q = ?$

- a. $\frac{3r+1}{7r-1}$
- b. $\frac{3r+5}{7r-5}$
- c. $\frac{3r}{7} + \frac{5}{r}$
- d. $\frac{3r-5}{2}$
- e. $\frac{3r^2+35}{7r}$

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17.) Which of the following is equivalent to the expression:

$$\frac{5n}{n-3} - \frac{2}{n+1}$$

- a. $\frac{5n-2}{n^2-2n-3}$
- b. $\frac{5n-2}{2n-2}$
- c. $\frac{3n+11}{-2n-3}$
- d. $\frac{5n^2+3n+6}{n^2-2n-3}$
- e. $\frac{5n^2+3n-6}{n^2-2n-3}$

18.) If $2ab - a = 3b + 2$, then $b = ?$

- a. $\frac{3a+2}{2a-1}$
- b. $-a - 2$
- c. $\frac{a-2}{5}$
- d. $\frac{a-1}{3a+2}$
- e. $\frac{a+2}{2a-3}$

19.) The formula for the area of a circle is $A = \pi r^2$.

What is r equal to, in terms of A ?

- a. $\frac{A}{2\pi}$
- b. $\frac{A-\pi}{2}$
- c. $\sqrt{A - \pi}$
- d. $\sqrt{\frac{A}{\pi}}$
- e. $\sqrt{A\pi}$

20.) The expression $\frac{2x+4}{12x^2}$ is equivalent to:

- a. $\frac{1}{2}$
- b. $\frac{1}{2x}$
- c. $\frac{2}{3x}$
- d. $\frac{3x^2}{x+2}$
- e. $\frac{1}{6x} + \frac{1}{3x^2}$