

Section 11.3 Worksheet

Name: _____

Simplify the expression, if possible.

1.) $\frac{7x}{21}$

2.) $\frac{48x^5}{18x^2}$

3.) $\frac{18x^2}{12x}$

4.) $\frac{x}{15+x}$

5.) $\frac{m^2}{m(m+1)}$

6.) $\frac{12b(4-b)}{6b^3}$

7.) $\frac{14x}{7x^2 - 21x^3}$

8.) $\frac{5x}{x^2 + 3x}$

9.) $\frac{2x^2 + x}{4x}$

10.) $\frac{x^2 - 1}{6x + 6}$

11.) $\frac{4x - 12}{x^2 - 9}$

12.) $\frac{x^2 + 5x + 4}{3x + 12}$

13.) $\frac{x^2 - 4}{x^2 + 7x + 10}$

14.) $\frac{x^2 - 13x + 42}{x^2 + 3x + 2}$

15.) $\frac{2x^2 + 5x + 3}{4x^2 + 4x - 3}$

REVIEW:

Solve by using cross multiplication.

$$16.) \frac{6}{2p} = \frac{5}{8}$$

$$17.) \frac{x}{x+4} = \frac{2}{x}$$

Using the given values of x and y and the type of variation listed, write an equation that relates x and y .

$$18.) x = 36, y = 54; \text{ directly}$$

$$19.) x = 4.2, y = 6; \text{ inversely}$$