## Quiz 2

Thursday, February 11, 2021

10:41 AM



quiz-02

**MATH 208** 

Ouiz 2

Write the answer as a simple fraction reduced to lowest terms.

1) 
$$\frac{a}{b} + \frac{b}{a} = \frac{a}{ab} + \frac{b}{ab} = \frac{a^2 + b^2}{ab}$$

4) 
$$\frac{x}{y^3} \div \frac{x^2}{y} = \frac{xy}{x^2y^2} = \frac{1}{xy^2}$$

2) 
$$\frac{a}{bc} - \frac{c}{ab} = \frac{c^2}{ab^2c} - \frac{bc^2}{ab^2c} = \frac{ca^2 - c^2}{ab^2c}$$

2) 
$$\frac{a}{bc} - \frac{c}{ab} = \frac{a^2b}{ab^2c} - \frac{bc^2}{ab^2c} = \frac{cc^2-c^2}{abc}$$
5)  $\left(\frac{1}{7+h} - \frac{1}{7}\right) \div h = \frac{1}{h}\left(\frac{7}{7(7+h)} - \frac{7+h}{7(7+h)}\right)$ 

3) 
$$\frac{x^2}{y} \times \frac{y^6}{x^3} = \frac{\chi^2 y^6}{\chi^3 y} = \frac{y^5}{\chi}$$

$$= \frac{1}{h} \left( \frac{-h}{7(7+h)} \right) = -\frac{1}{7(7+h)}$$

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

$$(x^{-1} + y^{-1})(x^{-1} - y^{-1}) = \frac{1}{x^{-1} - y^{-1}} = \frac{1}{x^{-1} - y^{-1}} = \frac{xy}{xy} = \frac{xy}{y - x}$$

Round to the nearest integer

**8)** 
$$-5/19$$

**9)** Find the slope of the line that contains the points (3, -5) and (-4, 10).

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{10 + 5}{-4 - 3} = -\frac{15}{7}$$

10) Find the x and y coordinates of the point at which the graph of y = 7x - 4 intersects the x axis.

11) Find the x and y coordinates of the point at which the graph of y = 7x - 4 intersects the y axis. (0, -4)