

HW 4

96. a) $9 - 7(-3) = 9 + 21 = 30$

b) $9 - 7(3) = 9 - 21 = -12$

97. a) $(-2)^2 - 3(-2) + 4$

$$= 4 + 6 + 4$$
$$= 14$$

b) $2^2 - 6 + 4$

$$= 4 - 6 + 4$$
$$= 2$$

98. a) $-(-1)^2 + 5(-1) - 4$

$$= -1 - 5 - 4$$
$$= -10$$

b) $-(1)^2 + 5(1) - 4$

$$= -1 + 5 - 4$$
$$= 0$$

99. a) $\frac{1+1}{1-1} = \frac{2}{0}$ NS

b) $\frac{-1+1}{-1-1} = \frac{0}{-2} = 0$

113. $8/16 = 1/2$

115. $(\frac{3}{3})\frac{5}{8} - (\frac{2}{2})\frac{5}{12} + (\frac{4}{4})\frac{1}{6}$

$$= \frac{15}{24} - \frac{10}{24} + \frac{4}{24}$$

$$= \frac{9}{24}$$

117. $\frac{12}{1} \cdot \frac{4}{1} = 48$

119. $\frac{2x}{3}(\frac{4}{4}) - \frac{x}{4}(\frac{3}{3})$

$$= \frac{8x}{12} - \frac{3x}{12}$$

$$= \frac{5x}{12}$$

120. $\frac{5x}{3} \cdot \frac{2^1}{9} = \frac{5x}{27}$

127. False

128. $\frac{1+3}{5} = \frac{1}{5} + \frac{3}{5}$

False.

$$(\frac{b}{b})\frac{c}{a} + (\frac{a}{a})\frac{c}{b} = \frac{bc+ac}{ab}$$