

#4 $(5, 2)$ $(-5, 14)$
 x_1 y_1 x_2 y_2

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{14 - 2}{-5 - 5} = \frac{12}{-10}$$

$$m = -\frac{6}{5} = -1.2$$

$$y - y_1 = m(x - x_1)$$

$$y - 2 = -1.2(x - 5)$$

$$y - 2 = -1.2x + 6$$

$$y = -1.2x + 8$$

Jan 31-12:42 PM

$$y = 4x - 11$$

$$-2x - 3y = -7$$

$$-2x - 3(4x - 11) = -7$$

$$-2x - 12x + 33 = -7$$

$$-14x + 33 = -7$$

$$-14x = -40$$

$$x = \frac{40}{14} = \frac{20}{7}$$

$$y = 4(\frac{20}{7}) - 11$$

$$y = \frac{80}{7} - 11$$

$$y = \frac{80 - 77}{7} = \frac{3}{7}$$

$$y = \frac{3}{7}$$

Jan 31-2:11 PM

#5 $5x + 9y = -18$ $(9, 6)$
 x_1 y_1

$$-5x = -5x$$

$$9y = -5x - 18$$

$$\frac{9y}{9} = \frac{-5x - 18}{9}$$

$$y = -\frac{5}{9}x - 2$$

$$y = m(x + b)$$

$$m_1 = -\frac{5}{9}$$

$$m_2 = m_1 = -\frac{5}{9}$$

$$y - y_1 = m(x - x_1)$$

$$y - 6 = -\frac{5}{9}(x - 9)$$

$$y - 6 = -\frac{5}{9}x + 5$$

$$y = -\frac{5}{9}x + 11$$

$$y = m(x + b)$$

Jan 31-12:48 PM

#6 $8x - 3y = -18$

$$-8x = -8x$$

$$-3y = -8x - 18$$

$$\frac{-3y}{-3} = \frac{-8x - 18}{-3}$$

$$y = \frac{8}{3}x + 6$$

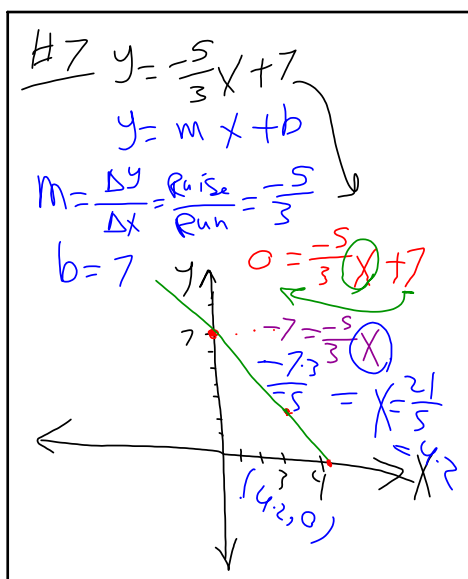
$$y = m(x + b)$$

$$m_1 = \frac{8}{3}$$

$$m_2 = -\frac{1}{m_1}$$

$$m_2 = -\frac{3}{8}$$

Jan 31-12:54 PM



Jan 31-12:56 PM

#8 Evaluate

$$\frac{\frac{3}{5} - \frac{1}{3}}{\frac{1}{4}} = \frac{\frac{9-5}{15}}{\frac{1}{4}}$$

$$\frac{4}{15} \div \frac{1}{4} = \frac{4}{15} \times \frac{4}{1} = \frac{16}{15} = 1\frac{1}{15}$$

Jan 31-1:05 PM

#9 $(7a^2)^3$

$7^3 a^{2(3)}$

$7^3 a^6 \quad \frac{7 \times 7 \times 7}{a^6} = \boxed{343/a^6}$

Jan 31-2:29 PM

#10

$$\frac{6x^4y^2}{4x^1y^2-3} \cdot \frac{4x^1y^2-3}{6x^4y^2}$$

$$= \frac{2x^5z^3}{3y^5}$$

Jan 31-2:32 PM