Analytical Geometry Test Review

1. Identify the slope and y-intercept of y = -7x - 19.

m = -7b = -19

2. Order the lines from steepest to flattest.

$$y = -\frac{1}{5}x + 8$$

$$y = -\frac{5}{8}$$

$$y = -2x + 4$$

 A catering company charges \$550 for 20 guest and \$775 for 35 guests. What is the cost per person?



4. Use the slope and y-intercept to graph $y = \frac{2}{3}x - 4$



- 5. Determine the equation of a line with coordinates (1, 2) and (7, -3). 1. Calculate the stope. $M = \frac{y_{a} - y_{1}}{y_{a} - x_{1}}$ $= \frac{-3}{-5}$ 2. Solve for "b". (7, ¹/₃) $-3 = \frac{-5}{6}$ (1) + b $-3 = \frac{-35}{-5}$ + b $-3 = \frac{-35}{-5}$ + b $-\frac{18}{-5} + \frac{35}{-5} = b$ $\frac{18}{-5} + \frac{35}{-5} = b$ $\frac{18}{-5} + \frac{35}{-5} = b$ $\frac{17}{-5} = -5$ 3. $y = -\frac{5}{-5} \times + \frac{11}{-5}$
- 6. Determine the equation of a line perpendicular to 4x 3y 2 = 0 with the same y-intercept as the line defined by 3x + 4y = -12.

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4x=3y-2=0
You need to isolate for "y".

$$\xrightarrow{3}y=\xrightarrow{4}x+2$$

 $y=\underbrace{4}x+2$
 $y=\underbrace{4}x+2$
 $y=\underbrace{4}x+2$
 $y=\underbrace{4}x-3$
 $y=\underbrace{4}x-3$
 $y=\underbrace{4}y=\underbrace{2}x-3$
 $y=\underbrace{4}y$
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Complete the following review questions:

p. 309 # 1 - 3ac, 4a, 14c.

p. 292 #8ad, 9a.