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Algebra 2 Chapter 2 Pre-Test

1.) (8 pts total, 4 pts each) For the following function, determine f(3) and f(-2).

a)
$$f(x) = x^2 - 4x + 5$$

b)
$$f(x) = \frac{5x-6}{2x}$$



3.) (8 pts total, 2 pts each) Which of the following graphs represents a function? Write either "function" or "not a function".



4.) (8 pts total, 4 pts each) Write the equation for the line formed by each slope and point. Include <u>both</u> slope-intercept and point-slope forms.

b) (0, -5), m = ½

5.) (8 pts total, 4 pts each) Find the slope and intercepts for each of the following lines:

a)
$$4x + 6y = -12$$

 $-4x$ $-4x$ $6y = -4x - 12$
 $5y = -4x - 12$
 $y = -4x - 12$
 $y = -4x - 12$
 $y = -3$
 $y = -3$
 $y = -2$
 $y = -2$

- 6.) (8 pts total, 4 pts each) Find the slope for each of the following:
 - a) (-5, 3) and (7, -1)



b) (-2, 6) and (4, -9)