1. (3 points) Write \(4x - 5y = 15\) in slope-intercept form, then express your answer in function notation.

\[
\begin{align*}
1. & \quad \frac{2}{3}x - \frac{3}{2}y = \frac{\sqrt{5}}{2} \\
2. & \quad \frac{2}{3}x - \frac{3}{2}y = \frac{\sqrt{5}}{2}
\end{align*}
\]
3. Consider the function \( f(x) = -2x^2 + 5x - 7 \),

(a) (1 point) Find \( f(0) \).

(b) (2 points) Find \( f(-2) \).

(c) (2 points) Find \( f(2x) \).

4. Consider the function \( f(x) = \frac{x - 4}{x + 2} \),

(a) (2 points) Find \( f(4) \).

(b) (2 points) Find \( f(-2) \).

5. Consider the function \( f(x) = |x - 1| + 2 \),

(a) (1 point) Find \( f(0) \).

(b) (1 point) Find \( f(-1) \).
6. Consider the following relation:

(a) (2 points) Find its domain.

(b) (2 points) Find its range.

(c) (2 points) Is this relation a function? Justify your answer.

7. Consider the graph below:

(a) (2 points) Give its domain in interval notation.

(b) (2 points) Give its range in interval notation.

(c) (2 points) Does this graph belong to a function? Justify your answer.
8. Consider the graph below:

(a) (2 points) Give its domain in interval notation. 

(b) (2 points) Give its range in interval notation. 

(c) (2 points) Does this graph belong to a function? Justify your answer.

(d) (2 points) Give any y-intercept.

(e) (2 points) Give any x-intercept.

9. Beginning Algebra Review Problems:

(a) (2 points) Factor $x^2 - 2x - 24$.

(b) (2 points) Solve $(3x + 5)(x - 7) = 0$ by using the zero-factor theorem.

(c) (2 points) Simplify $(3x - 5)^2 + 30x$. 