

Linear Functions Review

- Graph the following equations using their x and y intercepts:
 - $y = 2x + 6$
 - $2y - 8x = 12$
- Determine the slope of the line that passes through the following points:
 - $(3, 5)$, $(7, 10)$
 - $(2, 3)$, $(-5, 17)$
- Suppose y varies directly as x . For each of the following relationships, write a direct variation equation and then solve for the given variable.
 - If $y = 25$ when $x = 5$, find y when $x = 7$
 - If $y = 12$ when $x = 8$, find x when $y = 33$
- Write an equation for term n of each of the following arithmetic sequences, then find the next 3 terms in the sequence
 - $-2, 2, 6, 10, 14 \dots$
 - $5, 12, 19, 26, 33 \dots$
- Determine the equation of each of the following arithmetic sequences in terms of n . Then state whether the function is proportional or unproportional.
 - $0, 3, 6, 9, 12$
 - $8, 16, 24, 32$