

Finding Line Equations

Name: _____

1. Write the equation of the following lines given slope and intercept.

(A) With y -intercept $(0, 2)$ and slope $\frac{2}{3}$.

(B) With y -intercept $(0, 4)$ and slope $-\frac{1}{3}$.

(C) With y -intercept $(0, -1)$ and slope 2.

(D) With y -intercept $(0, 0)$ and slope -1 .

(E) With y -intercept $(0, 2)$ and slope 0.

2. Write the equation of the following lines given slope and point.

(A) Through $(1, 2)$ with slope $\frac{2}{3}$.

(B) Through $(4, 0)$ with slope $-\frac{1}{3}$.

(C) Through $(-2, -1)$ with slope 2.

(D) Through $(1, -1)$ with slope -1 .

(E) Through $(2, 0)$ with slope 0.

(F) Through $(-1, 3)$ with undefined slope.

3. Write the equation of the following lines through the given points.

(A) Through $(1, 2)$ and $(-1, 1)$.

(B) Through $(3, 2)$ and $(-1, -2)$.

(C) Through $(-1, 0)$ and $(0, 0)$.

(D) Through $(1, 2)$ and $(1, -2)$.

4. Write the equation of the following lines through the given points.

(A) Parallel to $y = -x + 2$ through $(1, 2)$

(B) Parallel to $2x + 4y = 1$ through $(5, 2)$

(C) Perpendicular to $y = 2x + 1$ through $(2, 1)$

(D) Perpendicular to $x - 3y = 1$ through $(-1, 3)$