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## Section 7.1 Extra Practice

1. What are the slope and $y$-intercept of each line?
a) $y=5 x-3$
b) $y=0.1 x-5.7$
c) $y=\frac{x}{3}+4$
d) $y=-\frac{3}{4} x+\frac{1}{2}$
2. Sketch the graph of each line using the slope and $y$-intercept.
a) $y=2 x+3$
b) $y=-2 x+3$
c) $y=\frac{1}{2} x-4$
d) $y=-\frac{1}{2} x-4$
3. Express each equation in slope-intercept form. Determine the slope and $y$-intercept of each line.
a) $4 x+5 y-20=0$
b) $x-2 y+8=0$
c) $2 x-3 y=6$
d) $5 x-y=12$
4. Write the equation of each line in the form $y=m x+b$.
a) $m=2, y$-intercept: $(0,-5)$
b) $m=0, y$-intercept: $(0,6)$
c) $m=-\frac{1}{3}, y$-intercept: $(0,0)$
d) $m=-6, y$-intercept: $(0,2)$
5. Write the equation of each line in the form $y=m x+b$ and in the form $A x+B y=C$, where $A, B$, and $C$ are integers.
a) $m=\frac{1}{3}, y$-intercept: $\left(0, \frac{1}{2}\right)$
b) $m=-\frac{2}{5}, y$-intercept: $\left(0, \frac{1}{4}\right)$
6. What are the slope and $y$-intercept of each line? Write the equation of each line in the slope-intercept form.
a)

b)

c)

d)

7. Write the equation of each line in the form $y=m x+b$.
a) The slope is 2 . The line passes through the point $(1,4)$.
b) The $y$-intercept is -3 . The line passes through the point $(-2,6)$.
c) The line passes through the points $(0,4)$ and $(2,6)$.
