

Name: _____

Show all work and simplify all answers before circling/boxing them. If you do the problem incorrectly, or don't show sufficient work, you will be asked to rewrite the problem for full credit.

Due next class. Students who turn assignments in late (or do not attempt a problem) forfeit their ability to rewrite those problems for credit.

1. Find an equation (of any form) of the line that passes through $(1, 2)$ and $(3, -2)$, then graph the line.
2. Find the x and y intercepts of $4x - 5y = 20$, then graph the line.
3. Find the x and y intercepts of $y = x - 7$, then graph the line.
4. Find an equation (of any form) of the line with x -intercept $(4, 0)$ and y -intercept $(0, -3)$
5. Find an equation (of any form) of the line that has slope -3 and passes through $(0, 5)$
6. Find an equation (of any form) of the line that has slope $\frac{1}{3}$ and passes through $(\frac{1}{2}, -2)$
7. Find an equation (of any form) of the line that is parallel to $y = 4x + 16$ and passes through $(-4, -7)$
8. Find an equation (of any form) of the line that is perpendicular to $y = 6x - 10$ and passes through $(15, -7)$
9. Find an equation (of any form) of the line that is parallel to $-3x + 4y = 12$ and passes through $(-4, -6)$
10. Find an equation (of any form) of the line that is perpendicular to $4x - 8y = 8$ and passes through $(4, 7)$