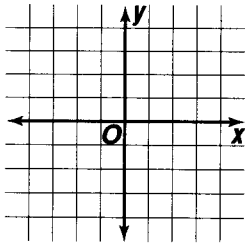


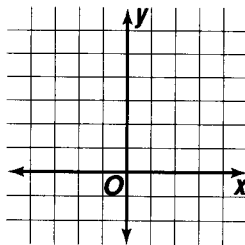
Practice

Student Edition
Pages 316-321**Families of Linear Graphs****Graph each pair of equations. Describe any similarities or differences and explain why they are a family of graphs.**

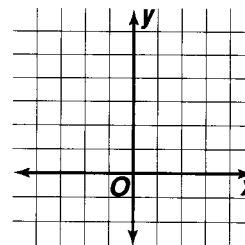
1. $y = 2x + 3$
 $y = 2x - 3$



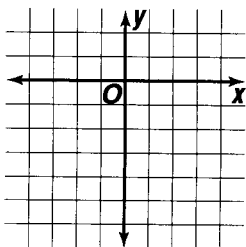
2. $y = 4x + 5$
 $y = -3x + 5$



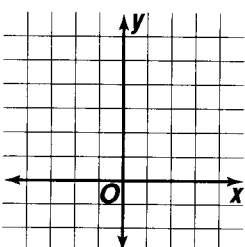
3. $y = \frac{1}{3}x + 2$
 $y = \frac{1}{3}x + 4$

**Compare and contrast the graphs of each pair of equations. Verify by graphing the equations.**

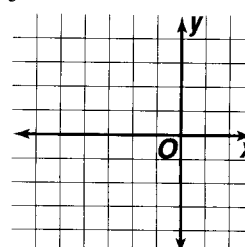
4. $y = -\frac{1}{2}x - 4$
 $y = -2x - 4$



5. $3x + 6 = y$
 $3x = y$



6. $y = \frac{5}{6}x + 3$
 $y = 5x + 3$

**Change $y = -x + 2$ so that the graph of the new equation fits each description.**

7. same slope,
shifted down 2 units
8. same y-intercept,
steeper negative slope
9. positive slope,
same y-intercept
10. same y-intercept, less
steep negative slope
11. same slope, shifted
up 4 units
12. same slope, shifted
down 6 units