

Answers for the "You Try" Examples

Skill #19

Write an equation of the line that passes through $(-2, 11)$ and is parallel to the line $y = -x + 5$. $y = -x + 9$

Skill #20 (Parallel and Perpendicular)

Determine which lines, if any, are parallel or perpendicular.

Line a: $2x + 6y = -3$ **Line b:** $y = 3x - 8$ **Line c:** $-1.5y + 4.5x = 6$

parallel: b and c; perpendicular: a and b, a and c

Skill #20 (Perpendicular Only) 3. No; the slope of line a is $-\frac{1}{2}$, the slope of line b

is $\frac{3}{2}$. The slopes are not negative reciprocals so the lines are not perpendicular.

Skill #21

Write an equation of the line that passes through $(4, 3)$ and is perpendicular to the line $y = 4x - 7$. $y = -\frac{1}{4}x + 4$